

Friday, November 25, 2022

Subject: Restrictions of Hazard Substances (RoHS), Substances of Very High Concern (SVHC) and other environmentally restricted substance Compliance Certificate.

Dear Valued Customer,

REC Silicon certifies that the attached listed product(s) supplied to you by REC Silicon from either of the below manufacturing locations do not exceed the concentration limits set forth herein for such listed substances as required by the respective listed regulations, except as where noted in the attached tables. This certificate applies to all REC Silicon products produced after January 1, 2022. If any listed chemicals are found in REC Products that exceed the allowed concentrations, REC will notify effective customers within 90 days. Copies of this letter are available at www.recsilicon.com.

REC Silicon Products:

- Silicon
- Silane
- Dichlorosilane
- Monochlorosilane
- Disilane

Manufacturing Locations:

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Source: <https://echa.europa.eu/candidate-list-table>

Date of Last Update to List: 11/27/2022

Substance name	Description	A-RMS-05-03-103 ref.	EC No.	CAS No.	Date of inclusion	Limit	notes from
N-(hydroxymethyl)acrylamide		B-1	213-103-2	924-42-5	10-Jun-2022	0.1% by weight (w/w)	
tris(2-methoxyethoxy)vinylsilane		B-1	213-934-0	1067-53-4	17-Jan-2022	0.1% by weight (w/w)	
5-(tricyclo[5.2.1.0 ^{2,6}]deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	X4261	B-1	401-850-9	255881-94-8	17-Jan-2022	0.1% by weight (w/w)	
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol		B-1	204-327-1	119-47-1	17-Jan-2022	0.1% by weight (w/w)	
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)		B-1	-	-	17-Jan-2022	0.1% by weight (w/w)	
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		B-1	253-242-6	36861-47-9	17-Jan-2022	0.1% by weight (w/w)	
(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		B-1	-	1782069-81-1	17-Jan-2022	0.1% by weight (w/w)	
(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		B-1	-	95342-41-9	17-Jan-2022	0.1% by weight (w/w)	
(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		B-1	-	852541-30-1	17-Jan-2022	0.1% by weight (w/w)	
(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		B-1	-	852541-21-0	17-Jan-2022	0.1% by weight (w/w)	
(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		B-1	-	741687-98-9	17-Jan-2022	0.1% by weight (w/w)	
(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		B-1	-	852541-25-4	17-Jan-2022	0.1% by weight (w/w)	
Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)		B-1	-	-	08-Jul-2021	0.1% by weight (w/w)	
Phenol, dodecyl-, branched		B-1	310-154-3	121158-58-5	08-Jul-2021	0.1% by weight (w/w)	
Phenol, 4-dodecyl-, branched		B-1	-	210555-94-5	08-Jul-2021	0.1% by weight (w/w)	
Phenol, 4-isododecyl-		B-1	-	27147-75-7	08-Jul-2021	0.1% by weight (w/w)	
Phenol, tetrapropylene-		B-1	-	57427-55-1	08-Jul-2021	0.1% by weight (w/w)	
Phenol, (tetrapropenyl) derivatives		B-1	-	74499-35-7	08-Jul-2021	0.1% by weight (w/w)	
4-isododecylphenol		B-1	-	27459-10-5	08-Jul-2021	0.1% by weight (w/w)	
orthoboric acid, sodium salt		B-1	-	-	08-Jul-2021	0.1% by weight (w/w)	
Boric acid, sodium salt		B-1	215-604-1	1333-73-9	08-Jul-2021	0.1% by weight (w/w)	
Orthoboric acid, sodium salt		B-1	237-560-2	13840-56-7	08-Jul-2021	0.1% by weight (w/w)	
boric acid (H3BO3), sodium salt, hydrate		B-1	-	25747-83-5	08-Jul-2021	0.1% by weight (w/w)	
boric acid (H3BO3), sodium salt (1:1)		B-1	-	14890-53-0	08-Jul-2021	0.1% by weight (w/w)	
Boric acid (H3BO3), disodium salt		B-1	-	22454-04-2	08-Jul-2021	0.1% by weight (w/w)	
Trisodium orthoborate		B-1	238-253-6	14312-40-4	08-Jul-2021	0.1% by weight (w/w)	
Medium-chain chlorinated paraffins (MCCP)	UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17	B-1	-	-	08-Jul-2021	0.1% by weight (w/w)	
Alkanes, C14-16, chloro		B-1	-	1372804-76-6	08-Jul-2021	0.1% by weight (w/w)	
Alkanes, C14-17, chloro		B-1	287-477-0	85535-85-9	08-Jul-2021	0.1% by weight (w/w)	
di-, tri- and tetra-chlorotetradecane		B-1	-	-	08-Jul-2021	0.1% by weight (w/w)	
Tetradecane, chloro derivs.		B-1	-	198840-65-2	08-Jul-2021	0.1% by weight (w/w)	
glutalal		B-1	203-856-5	111-30-8	08-Jul-2021	0.1% by weight (w/w)	
4,4'-(1-methylpropylidene)bisphenol		B-1	201-025-1	77-40-7	08-Jul-2021	0.1% by weight (w/w)	
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers		B-1	-	-	08-Jul-2021	0.1% by weight (w/w)	
(2R)-3-(4-tert-butylphenyl)-2-methylpropanal		B-1	-	75166-31-3	08-Jul-2021	0.1% by weight (w/w)	
2-(4-tert-butylbenzyl)propionaldehyde		B-1	201-289-8	80-54-6	08-Jul-2021	0.1% by weight (w/w)	
(2S)-3-(4-tert-butylphenyl)-2-methylpropanal		B-1	-	75166-30-2	08-Jul-2021	0.1% by weight (w/w)	
2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)		B-1	-	-	08-Jul-2021	0.1% by weight (w/w)	
2,3-dibromo-1-propanol (2,3-DBPA)		B-1	202-480-9	96-13-9	08-Jul-2021	0.1% by weight (w/w)	
2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA)		B-1	253-057-0	36483-57-5	08-Jul-2021	0.1% by weight (w/w)	
3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)		B-1	-	1522-92-5	08-Jul-2021	0.1% by weight (w/w)	
2,2-bis(bromomethyl)propane-1,3-diol (BMP)		B-1	221-967-7	3296-90-0	08-Jul-2021	0.1% by weight (w/w)	
1,4-dioxane		B-1	204-661-8	123-91-1	08-Jul-2021	0.1% by weight (w/w)	
Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety		B-1	-	-	19-Jan-2021	0.1% by weight (w/w)	
Stannane, dioctyl-, bis(coco acyloxy) derivs.		B-1	293-901-5	91648-39-4	19-Jan-2021	0.1% by weight (w/w)	
Diocetyl tin dilaurate		B-1	222-883-3	3648-18-8	19-Jan-2021	0.1% by weight (w/w)	
diocetyl tin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs.		B-1	-	-	19-Jan-2021	0.1% by weight (w/w)	
Bis(2-(2-methoxyethoxy)ethyl)ether		B-1	205-594-7	143-24-8	19-Jan-2021	0.1% by weight (w/w)	
Dibutylbis(pentane-2,4-dionato-O,O')tin		B-1	245-152-0	22673-19-4	25-Jun-2020	0.1% by weight (w/w)	
Butyl 4-hydroxybenzoate		B-1	202-318-7	94-26-8	25-Jun-2020	0.1% by weight (w/w)	
2-methylimidazole		B-1	211-765-7	693-98-1	25-Jun-2020	0.1% by weight (w/w)	
1-vinylimidazole		B-1	214-012-0	1072-63-5	25-Jun-2020	0.1% by weight (w/w)	
Perfluorobutane sulfonic acid (PFBS) and its salts		B-1	-	-	16-Jan-2020	0.1% by weight (w/w)	
Potassium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate		B-1	249-616-3	29420-49-3	16-Jan-2020	0.1% by weight (w/w)	
1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid		B-1	206-793-1	375-73-5	16-Jan-2020	0.1% by weight (w/w)	
bis(4-t-butylphenyl)iodonium perfluorobutanesulfonate		B-1	432-660-4	194999-85-4	16-Jan-2020	0.1% by weight (w/w)	
tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate		B-1	444-440-5	220689-12-3	16-Jan-2020	0.1% by weight (w/w)	
dimethyl(phenyl)sulfonium perfluorobutanesulfonate		B-1	452-310-4	220133-51-7	16-Jan-2020	0.1% by weight (w/w)	
Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate		B-1	269-513-7	68259-10-9	16-Jan-2020	0.1% by weight (w/w)	
Triphenylsulfonium perfluorobutane sulfonate		B-1	478-340-8	144317-44-2	16-Jan-2020	0.1% by weight (w/w)	
N,N,N-triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate		B-1	-	25628-08-4	16-Jan-2020	0.1% by weight (w/w)	
magnesium perfluorobutanesulfonate		B-1	-	507453-86-3	16-Jan-2020	0.1% by weight (w/w)	
lithium perfluorobutanesulfonate		B-1	-	131651-65-5	16-Jan-2020	0.1% by weight (w/w)	
morpholinium perfluorobutanesulfonate		B-1	-	503155-89-3	16-Jan-2020	0.1% by weight (w/w)	
1-(4-butoxy-1-naphthalenyl)tetrahydrothiophenium		B-1	468-770-4	-	16-Jan-2020	0.1% by weight (w/w)	
1,1,2,2,3,3,4,4,4-nonafluoro-1-butanedisulfonate		B-1	276-090-2	71850-09-4	16-Jan-2020	0.1% by weight (w/w)	
Diisohexyl phthalate		B-1	-	-	16-Jan-2020	0.1% by weight (w/w)	
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	ACETOCURE 97; GENOCURE*PMP; IGM 4817; IRGACURE 907; SPEEDCURE 97	B-1	400-600-6	71868-10-5	16-Jan-2020	0.1% by weight (w/w)	
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	CG 25-369; IRGACURE 369; TK 11-319	B-1	404-360-3	119313-12-1	16-Jan-2020	0.1% by weight (w/w)	

Source: <https://echa.europa.eu/candidate-list-table>

Date of Last Update to List: 11/27/2022

Substance name	Description	A-RMS-05-03-103 ref.	EC No.	CAS No.	Date of inclusion	Limit	notes from
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)		B-1	-	-	16-Jul-2019	0.1% by weight (w/w)	
tris(4-nonylphenyl, branched) phosphite		B-1	-	-	16-Jul-2019	0.1% by weight (w/w)	
tris(nonylphenyl) phosphite		B-1	247-759-6	26523-78-4	16-Jul-2019	0.1% by weight (w/w)	
Phenol, 4-nonyl-, phosphite (3:1)		B-1	-	3050-88-2	16-Jul-2019	0.1% by weight (w/w)	
Phenol, p-sec-nonyl-, phosphite		B-1	-	106599-06-8	16-Jul-2019	0.1% by weight (w/w)	
Phenol, p-isonyl-, phosphite (3:1)		B-1	-	31631-13-7	16-Jul-2019	0.1% by weight (w/w)	
4-tert-butylphenol		B-1	202-679-0	98-54-4	16-Jul-2019	0.1% by weight (w/w)	
2-methoxyethyl acetate		B-1	203-772-9	110-49-6	16-Jul-2019	0.1% by weight (w/w)	
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	covering any of their individual isomers and combinations thereof	B-1	-	-	16-Jul-2019	0.1% by weight (w/w)	
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionyl fluoride		B-1	218-173-8	2062-98-8	16-Jul-2019	0.1% by weight (w/w)	
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid		B-1	236-236-8	13252-13-6	16-Jul-2019	0.1% by weight (w/w)	
potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionate		B-1	266-578-3	67118-55-2	16-Jul-2019	0.1% by weight (w/w)	
ammonium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate		B-1	-	62037-80-3	16-Jul-2019	0.1% by weight (w/w)	
Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)		B-1	-	75579-40-7	16-Jul-2019	0.1% by weight (w/w)	
Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+)		B-1	-	75579-39-4	16-Jul-2019	0.1% by weight (w/w)	
Pyrene		B-1	204-927-3	129-00-0	15-Jan-2019	0.1% by weight (w/w)	
Phenanthrene		B-1	201-581-5	85-01-8	15-Jan-2019	0.1% by weight (w/w)	
Fluoranthene		B-1	205-912-4	206-44-0	15-Jan-2019	0.1% by weight (w/w)	
Benzo[k]fluoranthene		B-1	205-916-6	207-08-9	15-Jan-2019	0.1% by weight (w/w)	
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	AP-5	B-1	401-720-1	6807-17-6	15-Jan-2019	0.1% by weight (w/w)	
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	3-benzylidene camphor; 3-BC	B-1	239-139-9	15087-24-8	15-Jan-2019	0.1% by weight (w/w)	
Terphenyl, hydrogenated		B-1	262-967-7	61788-32-7	27-Jun-2018	0.1% by weight (w/w)	
Octamethylcyclotetrasiloxane	D4	B-1	209-136-7	556-67-2	27-Jun-2018	0.1% by weight (w/w)	
Lead		B-1	231-100-4	7439-92-1	27-Jun-2018	0.1% by weight (w/w)	
Ethylenediamine	EDA	B-1	203-468-6	107-15-3	27-Jun-2018	0.1% by weight (w/w)	
Dodecamethylcyclohexasiloxane	D6	B-1	208-762-8	540-97-6	27-Jun-2018	0.1% by weight (w/w)	
Disodium octaborate		B-1	234-541-0	12008-41-2	27-Jun-2018	0.1% by weight (w/w)	
Dicyclohexyl phthalate	DCHP	B-1	201-545-9	84-61-7	27-Jun-2018	0.1% by weight (w/w)	
Decamethylcyclopentasiloxane	D5	B-1	208-764-9	541-02-6	27-Jun-2018	0.1% by weight (w/w)	
Benzo[ghi]perylene		B-1	205-883-8	191-24-2	27-Jun-2018	0.1% by weight (w/w)	
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	trimellitic anhydride; TMA	B-1	209-008-0	552-30-7	27-Jun-2018	0.1% by weight (w/w)	
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)	B-1	-	-	15-Jan-2018	0.1% by weight (w/w)	
Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.		B-1	-	1471311-26-8	15-Jan-2018	0.1% by weight (w/w)	
Formaldehyde, reaction products with branched and linear heptylphenol, carbon disulfide and hydrazine		B-1	300-298-5	93925-00-9	15-Jan-2018	0.1% by weight (w/w)	
Chrysene		B-1	205-923-4	218-01-9	15-Jan-2018	0.1% by weight (w/w)	
Cadmium nitrate		B-1	233-710-6	10325-94-7	15-Jan-2018	0.1% by weight (w/w)	
Cadmium hydroxide		B-1	244-168-5	21041-95-2	15-Jan-2018	0.1% by weight (w/w)	
Cadmium carbonate		B-1	208-168-9	513-78-0	15-Jan-2018	0.1% by weight (w/w)	
Benzo[a]anthracene		B-1	200-280-6	56-55-3	15-Jan-2018	0.1% by weight (w/w)	
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus™")	covering any of its individual anti- and syn-isomers or any combination thereof	B-1	-	-	15-Jan-2018	0.1% by weight (w/w)	
(15,25,5R,6R,9S,10S,13R,14R)-1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene		B-1	-	135821-03-3	15-Jan-2018	0.1% by weight (w/w)	
1,6,7,8,9,14,15,16,17,17,18,18-dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene		B-1	-	13560-89-9	15-Jan-2018	0.1% by weight (w/w)	
(15,25,5S,6S,9R,10R,13R,14R)-1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene		B-1	-	135821-74-8	15-Jan-2018	0.1% by weight (w/w)	
rel-(1R,4S,4aS,6aR,7R,10S,10aS,12aR)-1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10-dimethanodibenzo[a,e]cyclooctene		B-1	-	-	15-Jan-2018	0.1% by weight (w/w)	
rel-(1R,4S,4aS,6aS,7S,10R,10aR,12aR)-1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10-dimethanodibenzo[a,e]cyclooctene		B-1	-	-	15-Jan-2018	0.1% by weight (w/w)	
Perfluorohexane-1-sulphonic acid and its salts	PFHxS	B-1	-	-	07-Jul-2017	0.1% by weight (w/w)	
perfluorohexane-1-sulphonic acid		B-1	206-587-1	355-46-4	07-Jul-2017	0.1% by weight (w/w)	
ammonium perfluorohexane-1-sulphonate		B-1	269-511-6	68259-08-5	07-Jul-2017	0.1% by weight (w/w)	
tridecafluorohexanesulphonic acid, compound with 2,2'-iminodithanol (1:1)		B-1	274-462-9	70225-16-0	07-Jul-2017	0.1% by weight (w/w)	
potassium perfluorohexane-1-sulphonate		B-1	223-393-2	3871-99-6	07-Jul-2017	0.1% by weight (w/w)	
Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)		B-1	-	1310480-24-0	07-Jul-2017	0.1% by weight (w/w)	
Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)		B-1	-	1310480-27-3	07-Jul-2017	0.1% by weight (w/w)	
Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)		B-1	-	1310480-28-4	07-Jul-2017	0.1% by weight (w/w)	
Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1)-(1:1)		B-1	-	1329995-45-0	07-Jul-2017	0.1% by weight (w/w)	
Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1)-(1:1)		B-1	-	1329995-69-8	07-Jul-2017	0.1% by weight (w/w)	
Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)		B-1	-	144116-10-9	07-Jul-2017	0.1% by weight (w/w)	
Quinolinium, 1-(carboxymethyl)-4-[2-[4-[2,2-diphenylethenyl]phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)		B-1	-	1462414-59-0	07-Jul-2017	0.1% by weight (w/w)	
Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)		B-1	-	153443-35-7	07-Jul-2017	0.1% by weight (w/w)	
Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1)		B-1	-	189274-31-5	07-Jul-2017	0.1% by weight (w/w)	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1)		B-1	-	202189-84-2	07-Jul-2017	0.1% by weight (w/w)	

Source: <https://echa.europa.eu/candidate-list-table>

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Substance name	Description	A-RMS-05-03-103 ref.	EC No.	CAS No.	Date of inclusion	Limit	notes from
Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)		B-1	-	213740-81-9	07-Jul-2017	0.1% by weight (w/w)	
Sulfonium, bis[4-methylphenyl]phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)		B-1	-	341548-85-4	07-Jul-2017	0.1% by weight (w/w)	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, scandium(3+) salt (3:1)		B-1	-	350836-93-0	07-Jul-2017	0.1% by weight (w/w)	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, neodymium(3+) salt (3:1)		B-1	-	41184-65-0	07-Jul-2017	0.1% by weight (w/w)	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, yttrium(3+) salt (3:1)		B-1	-	41242-12-0	07-Jul-2017	0.1% by weight (w/w)	
Sulfonium, (thiodi-4,1-phenylene)bis(diphenyl)-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)		B-1	-	421555-73-9	07-Jul-2017	0.1% by weight (w/w)	
Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic acid (1:1)		B-1	-	421555-74-0	07-Jul-2017	0.1% by weight (w/w)	
Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)		B-1	-	425670-70-8	07-Jul-2017	0.1% by weight (w/w)	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, lithium salt (1:1)		B-1	-	55120-77-9	07-Jul-2017	0.1% by weight (w/w)	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, zinc salt		B-1	-	70136-72-0	07-Jul-2017	0.1% by weight (w/w)	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)		B-1	-	72033-41-1	07-Jul-2017	0.1% by weight (w/w)	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, sodium salt		B-1	-	82382-12-5	07-Jul-2017	0.1% by weight (w/w)	
Iodonium, bis[1,1-dimethylethyl]phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9CI)		B-1	-	866621-50-3	07-Jul-2017	0.1% by weight (w/w)	
Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)		B-1	-	910606-39-2	07-Jul-2017	0.1% by weight (w/w)	
Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)		B-1	-	911027-68-4	07-Jul-2017	0.1% by weight (w/w)	
Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 ^{3,7}]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 ^{3,7}]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate		B-1	-	911027-69-5	07-Jul-2017	0.1% by weight (w/w)	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, cesium salt (1:1)		B-1	-	92011-17-1	07-Jul-2017	0.1% by weight (w/w)	
Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)		B-1	-	928049-42-7	07-Jul-2017	0.1% by weight (w/w)	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, compd. With pyrrolidine (1:1)		B-1	-	1187817-57-7	07-Jul-2017	0.1% by weight (w/w)	
N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate		B-1	-	108427-55-0	07-Jul-2017	0.1% by weight (w/w)	
N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate		B-1	-	108427-54-9	07-Jul-2017	0.1% by weight (w/w)	
Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)		B-1	-	1000597-52-3	07-Jul-2017	0.1% by weight (w/w)	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, gallium salt (9CI)		B-1	-	341035-71-0	07-Jul-2017	0.1% by weight (w/w)	
p-(1,1-dimethylpropyl)phenol		B-1	-	201-280-9	12-Jan-2017	0.1% by weight (w/w)	
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts		B-1	-	-	12-Jan-2017	0.1% by weight (w/w)	
Nonadecafluorodecanoic acid		B-1	-	206-400-3	12-Jan-2017	0.1% by weight (w/w)	
sodium nonadecafluorodecanoate		B-1	-	3830-45-3	12-Jan-2017	0.1% by weight (w/w)	
Ammonium nonadecafluorodecanoate		B-1	-	221-470-5	12-Jan-2017	0.1% by weight (w/w)	
	substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	B-1	-	-	12-Jan-2017	0.1% by weight (w/w)	
4-heptylphenol, branched and linear		B-1	-	-	12-Jan-2017	0.1% by weight (w/w)	
Phenol, heptyl derivs.		B-1	-	276-743-1	12-Jan-2017	0.1% by weight (w/w)	
4-heptylphenol		B-1	-	217-862-0	12-Jan-2017	0.1% by weight (w/w)	
4-(3-ethylpentan-3-yl)phenol		B-1	-	37872-24-5	12-Jan-2017	0.1% by weight (w/w)	
4-(2-methylhexan-2-yl)phenol		B-1	-	30784-31-7	12-Jan-2017	0.1% by weight (w/w)	
4-(3,3-dimethylpentan-2-yl)phenol		B-1	-	911371-06-7	12-Jan-2017	0.1% by weight (w/w)	
4-(3-methylhexan-2-yl)phenol		B-1	-	854904-93-1	12-Jan-2017	0.1% by weight (w/w)	
4-(4,4-dimethylpentan-2-yl)phenol		B-1	-	911371-07-8	12-Jan-2017	0.1% by weight (w/w)	
4-(4-methylhexan-2-yl)phenol		B-1	-	71945-81-8	12-Jan-2017	0.1% by weight (w/w)	
4-(5-methylhexan-2-yl)phenol		B-1	-	857629-71-1	12-Jan-2017	0.1% by weight (w/w)	
4-(2,2-dimethylpentan-3-yl)phenol		B-1	-	861010-65-3	12-Jan-2017	0.1% by weight (w/w)	
4-(3-methylhexan-3-yl)phenol		B-1	-	30784-32-8	12-Jan-2017	0.1% by weight (w/w)	
4-(heptan-3-yl)phenol		B-1	-	6465-74-3	12-Jan-2017	0.1% by weight (w/w)	
4-(heptan-2-yl)phenol		B-1	-	6863-24-7	12-Jan-2017	0.1% by weight (w/w)	
4-(heptan-4-yl)phenol		B-1	-	6465-71-0	12-Jan-2017	0.1% by weight (w/w)	
4-(3-ethylpentyl)phenol		B-1	-	911370-98-4	12-Jan-2017	0.1% by weight (w/w)	
4-(3-methylhexyl)phenol		B-1	-	102570-52-5	12-Jan-2017	0.1% by weight (w/w)	
4-(4-methylhexyl)phenol		B-1	-	1139800-98-8	12-Jan-2017	0.1% by weight (w/w)	
4-(5-methylhexyl)phenol		B-1	-	100532-36-3	12-Jan-2017	0.1% by weight (w/w)	
4-(2,4-dimethylpentan-3-yl)phenol		B-1	-	1824346-00-0	12-Jan-2017	0.1% by weight (w/w)	
Phenol, 4-tert-heptyl-		B-1	-	288864-02-8	12-Jan-2017	0.1% by weight (w/w)	
Phenol, 4-(1-ethyl-1,2-dimethylpropyl)-		B-1	-	30784-27-1	12-Jan-2017	0.1% by weight (w/w)	
4-(2,3-dimethylpentan-2-yl)phenol		B-1	-	861011-60-1	12-Jan-2017	0.1% by weight (w/w)	
4-(2,4-dimethylpentan-2-yl)phenol		B-1	-	33104-11-9	12-Jan-2017	0.1% by weight (w/w)	
4-(2,3,3-trimethylbutan-2-yl)phenol		B-1	-	72861-06-4	12-Jan-2017	0.1% by weight (w/w)	
4-(5-methylhexan-3-yl)phenol		B-1	-	854904-92-0	12-Jan-2017	0.1% by weight (w/w)	
4,4'-isopropylidenediphenol	Bisphenol A; BPA	B-1	-	201-245-8	12-Jan-2017	0.1% by weight (w/w)	
Benzo[def]chrysene (Benzo[a]pyrene)		B-1	-	200-028-5	20-Jun-2016	0.1% by weight (w/w)	
Perfluorononan-1-oic-acid and its sodium and ammonium salts		B-1	-	-	17-Dec-2015	0.1% by weight (w/w)	
Perfluorononan-1-oic-acid		B-1	-	206-801-3	17-Dec-2015	0.1% by weight (w/w)	
Sodium salts of perfluorononan-1-oic-acid		B-1	-	21049-39-8	17-Dec-2015	0.1% by weight (w/w)	
Ammonium salts of perfluorononan-1-oic-acid		B-1	-	4149-60-4	17-Dec-2015	0.1% by weight (w/w)	
Nitrobenzene		B-1	-	202-716-0	17-Dec-2015	0.1% by weight (w/w)	
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)		B-1	-	253-037-1	17-Dec-2015	0.1% by weight (w/w)	

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Substance name	Description	A-RMS-05-03-103 ref.	EC No.	CAS No.	Date of inclusion	Limit	Notes from
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)		B-1	223-383-8	3864-99-1	17-Dec-2015	0.1% by weight (w/w)	
1,3-propanesultone		B-1	214-317-9	1120-71-4	17-Dec-2015	0.1% by weight (w/w)	
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2]	covering any of the individual stereoisomers of [1] and [2] or any combination thereof	B-1	-	-	15-Jun-2015	0.1% by weight (w/w)	
Reaction mass of 5-[(2R)-butan-2-yl]-2-[(1R,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2R)-butan-2-yl]-2-[(1R,6R)-4,6-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1R,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1S,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1S,6R)-4,6-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane		B-1	-	-	15-Jun-2015	0.1% by weight (w/w)	
1,3-Dioxane, 2-[(1S,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-		B-1	-	676367-06-9	15-Jun-2015	0.1% by weight (w/w)	
5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane		B-1	-	-	15-Jun-2015	0.1% by weight (w/w)	
1,3-Dioxane, 2-(2,4-dimethyl-3-cyclohexen-1-yl)-5-methyl-5-(1-methylpropyl)-		B-1	-	186309-28-4	15-Jun-2015	0.1% by weight (w/w)	
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-		B-1	-	676367-05-8	15-Jun-2015	0.1% by weight (w/w)	
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-rel-		B-1	-	343934-04-3	15-Jun-2015	0.1% by weight (w/w)	
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-		B-1	-	676367-09-2	15-Jun-2015	0.1% by weight (w/w)	
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-rel-		B-1	-	343934-05-4	15-Jun-2015	0.1% by weight (w/w)	
1,3-Dioxane, 2-[(1R,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-		B-1	-	676367-04-7	15-Jun-2015	0.1% by weight (w/w)	
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-		B-1	-	676367-08-1	15-Jun-2015	0.1% by weight (w/w)	
1,3-Dioxane, 2-[(1S,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-		B-1	-	676367-03-6	15-Jun-2015	0.1% by weight (w/w)	
1,3-Dioxane, 2-[(1S,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-		B-1	-	676367-07-0	15-Jun-2015	0.1% by weight (w/w)	
1,3-Dioxane, 2-(2,4-dimethyl-3-cyclohexen-1-yl)-5-methyl-5-(1-methylpropyl)-		B-1	-	117933-89-8	15-Jun-2015	0.1% by weight (w/w)	
Reaction mass of 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane and 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane		B-1	413-720-9	-	15-Jun-2015	0.1% by weight (w/w)	
1,3-Dioxane, 2-[(1S,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-		B-1	-	676367-02-5	15-Jun-2015	0.1% by weight (w/w)	
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane		B-1	-	-	15-Jun-2015	0.1% by weight (w/w)	
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	B-1	-	-	15-Jun-2015	0.1% by weight (w/w)	
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters		B-1	272-013-1	68648-93-1	15-Jun-2015	0.1% by weight (w/w)	
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters		B-1	271-094-0	68515-51-5	15-Jun-2015	0.1% by weight (w/w)	
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-diethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)		B-1	-	-	17-Dec-2014	0.1% by weight (w/w)	
Cadmium sulphate		B-1	233-331-6	10124-36-4, 31119-53-6	17-Dec-2014	0.1% by weight (w/w)	
Cadmium fluoride		B-1	232-222-0	7790-79-6	17-Dec-2014	0.1% by weight (w/w)	
2-ethylhexyl 10-ethyl-4,4-diethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)		B-1	239-622-4	15571-58-1	17-Dec-2014	0.1% by weight (w/w)	
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)		B-1	223-346-6	3846-71-7	17-Dec-2014	0.1% by weight (w/w)	
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)		B-1	247-384-8	25973-55-1	17-Dec-2014	0.1% by weight (w/w)	
Sodium peroxometaborate		B-1	231-556-4	7632-04-4	16-Jun-2014	0.1% by weight (w/w)	
Sodium perborate, perboric acid, sodium salt		B-1	-	-	16-Jun-2014	0.1% by weight (w/w)	
Perboric acid, sodium salt		B-1	234-390-0	11138-47-9	16-Jun-2014	0.1% by weight (w/w)	
Sodium perborate		B-1	239-172-9	15120-21-5	16-Jun-2014	0.1% by weight (w/w)	
Borate(2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium, hydrate (1:2:6)		B-1	-	125022-34-6	16-Jun-2014	0.1% by weight (w/w)	
Borate(2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium (1:2)		B-1	-	90568-23-3	16-Jun-2014	0.1% by weight (w/w)	
Perboric acid (H3BO2(O2)), monosodium salt, trihydrate		B-1	-	13517-20-9	16-Jun-2014	0.1% by weight (w/w)	
Cadmium chloride		B-1	233-296-7	10108-64-2	16-Jun-2014	0.1% by weight (w/w)	
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear		B-1	271-093-5	68515-50-4	16-Jun-2014	0.1% by weight (w/w)	
Triethyl phosphate		B-1	246-677-8	25155-23-1	16-Dec-2013	0.1% by weight (w/w)	
Lead di(acetate)		B-1	206-104-4	301-04-2	16-Dec-2013	0.1% by weight (w/w)	
Imidazolidine-2-thione (2-imidazoline-2-thiol)		B-1	202-506-9	96-45-7	16-Dec-2013	0.1% by weight (w/w)	
Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)		B-1	217-710-3	1937-37-7	16-Dec-2013	0.1% by weight (w/w)	
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)		B-1	209-358-4	573-58-0	16-Dec-2013	0.1% by weight (w/w)	
Dihexyl phthalate		B-1	201-559-5	84-75-3	16-Dec-2013	0.1% by weight (w/w)	
Cadmium sulphide		B-1	215-147-8	1306-23-6	16-Dec-2013	0.1% by weight (w/w)	
Pentadecafluorooctanoic acid (PFOA)		B-1	206-397-9	335-67-1	20-Jun-2013	0.1% by weight (w/w)	
Dipentyl phthalate (DPP)		B-1	205-017-9	131-18-0	20-Jun-2013	0.1% by weight (w/w)	
Cadmium oxide		B-1	215-146-2	1306-19-0	20-Jun-2013	0.1% by weight (w/w)	
Cadmium		B-1	231-152-8	7440-43-9	20-Jun-2013	0.1% by weight (w/w)	
Ammonium pentadecafluorooctanoate (APFO)		B-1	223-320-4	3825-26-1	20-Jun-2013	0.1% by weight (w/w)	
4-Nonylphenol, branched and linear, ethoxylated	substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof	B-1	-	-	20-Jun-2013	0.1% by weight (w/w)	
2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]ethanol		B-1	230-770-5	7311-27-5	20-Jun-2013	0.1% by weight (w/w)	
2-[2-(4-nonylphenoxy)ethoxy]ethanol		B-1	243-816-4	20427-84-3	20-Jun-2013	0.1% by weight (w/w)	
26-(4-Nonylphenoxy)-3,6,9,12,15,18,21,24-octaohexacosan-1-ol		B-1	-	14409-72-4	20-Jun-2013	0.1% by weight (w/w)	
Nonylphenol, branched, ethoxylated	1 - 2.5 moles ethoxylated	B-1	500-209-1	68412-54-4	20-Jun-2013	0.1% by weight (w/w)	

Source: <https://echa.europa.eu/candidate-list-table>

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Substance name	Description	A-RMS-05-03-103 ref.	EC No.	CAS No.	Date of inclusion	limit	notes from
4-Nonylphenol, ethoxylated	1 - 2.5 moles ethoxylated	B-1	500-045-0	26027-38-3	20-Jun-2013	0.1% by weight (w/w)	
Nonylphenol, ethoxylated		B-1	500-024-6	9016-45-9	20-Jun-2013	0.1% by weight (w/w)	
Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched		B-1	-	68412-54-4	20-Jun-2013	0.1% by weight (w/w)	
Poly (oxy-1,2-ethanediyl), alpha -(nonylphenyl)-omega-hydroxy-, branched		B-1	-	68412-54-4	20-Jun-2013	0.1% by weight (w/w)	
Nonylphenol, ethoxylated (15-EO)		B-1	-	9016-45-9	20-Jun-2013	0.1% by weight (w/w)	
Nonylphenol, ethoxylated (10-EO)		B-1	-	9016-45-9	20-Jun-2013	0.1% by weight (w/w)	
Nonylphenol, ethoxylated (8-EO)		B-1	-	9016-45-9	20-Jun-2013	0.1% by weight (w/w)	
Nonylphenol, ethoxylated (6,5-EO)		B-1	-	9016-45-9	20-Jun-2013	0.1% by weight (w/w)	
20-(4-nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol		B-1	248-743-1	27942-27-4	20-Jun-2013	0.1% by weight (w/w)	
Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy- (CAS 9016-45-9)		B-1	-	9016-45-9	20-Jun-2013	0.1% by weight (w/w)	
Isononylphenol, ethoxylated		B-1	-	37205-87-1	20-Jun-2013	0.1% by weight (w/w)	
Nonylphenol, ethoxylated (polymer)		B-1	-	-	20-Jun-2013	0.1% by weight (w/w)	
Nonylphenol, ethoxylated (EO = 4)		B-1	-	-	20-Jun-2013	0.1% by weight (w/w)	
Nonylphenol, ethoxylated (EO = 10)		B-1	-	-	20-Jun-2013	0.1% by weight (w/w)	
4-Nonylphenol, branched, ethoxylated (CAS: 127087-87-0)		B-1	-	-	20-Jun-2013	0.1% by weight (w/w)	
2-(4-nonylphenoxy)ethanol		B-1	-	104-35-8	20-Jun-2013	0.1% by weight (w/w)	
4-t-Nonylphenol-diethoxylate		B-1	-	156609-10-8	20-Jun-2013	0.1% by weight (w/w)	
3,6,9,12-Tetraoxatetradecan-1-ol, 14-(4-nonylphenoxy)-		B-1	-	20636-48-0	20-Jun-2013	0.1% by weight (w/w)	
2-(isononylphenoxy)ethanol		B-1	284-987-5	85005-55-6	20-Jun-2013	0.1% by weight (w/w)	
3,6,9,12-Tetraoxatetradecan-1-ol, 14-(4-nonylphenoxy)-, branched		B-1	293-926-1	91648-64-5	20-Jun-2013	0.1% by weight (w/w)	
4-Nonylphenol, branched, ethoxylated	1 - 2.5 moles ethoxylated	B-1	500-315-8	127087-87-0	20-Jun-2013	0.1% by weight (w/w)	
17-(4-nonylphenoxy)-3,6,9,12,15-pentaoxaheptadecan-1-ol		B-1	-	34166-38-6	20-Jun-2013	0.1% by weight (w/w)	
Nonylphenolpolyglycoether		B-1	-	-	20-Jun-2013	0.1% by weight (w/w)	
26-(nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxaheptacosan-1-ol		B-1	255-695-5	42173-90-0	20-Jun-2013	0.1% by weight (w/w)	
2-(nonylphenoxy)ethanol		B-1	248-762-5	27986-36-3	20-Jun-2013	0.1% by weight (w/w)	
2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethanol		B-1	-	1119449-37-4	20-Jun-2013	0.1% by weight (w/w)	
20-(isononylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol		B-1	265-785-6	65455-69-8	20-Jun-2013	0.1% by weight (w/w)	
44-(nonylphenoxy)-3,6,9,12,15,18,21,24,27,30,33,36,39,42-tetradecaooxatetratetracontanol		B-1	260-678-0	57321-10-5	20-Jun-2013	0.1% by weight (w/w)	
29-(nonylphenoxy)-3,6,9,12,15,18,21,24,27-nonaononacosanol		B-1	248-294-1	27177-08-8	20-Jun-2013	0.1% by weight (w/w)	
23-(nonylphenoxy)-3,6,9,12,15,18,21-heptaotricicosan-1-ol		B-1	248-293-6	27177-05-5	20-Jun-2013	0.1% by weight (w/w)	
20-(nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol		B-1	248-292-0	27177-03-3	20-Jun-2013	0.1% by weight (w/w)	
2-[2-(nonylphenoxy)ethoxy]ethanol		B-1	248-291-5	27176-93-8	20-Jun-2013	0.1% by weight (w/w)	
26-(nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxaheptacosan-1-ol		B-1	247-816-5	26571-11-9	20-Jun-2013	0.1% by weight (w/w)	
14-(nonylphenoxy)-3,6,9,12-tetraoxatetradecan-1-ol		B-1	247-555-7	26264-02-8	20-Jun-2013	0.1% by weight (w/w)	
2-[2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethoxy]ethanol		B-1	-	1119449-38-5	20-Jun-2013	0.1% by weight (w/w)	
Trilead dioxide phosphonate		B-1	235-252-2	12141-20-7	19-Dec-2012	0.1% by weight (w/w)	
Trilead bis(carbonate) dihydroxide		B-1	215-290-6	1319-46-6	19-Dec-2012	0.1% by weight (w/w)	
Tricosafuorododecanoic acid		B-1	206-203-2	307-55-1	19-Dec-2012	0.1% by weight (w/w)	
Tetralead trioxide sulphate		B-1	235-380-9	12202-17-4	19-Dec-2012	0.1% by weight (w/w)	
Tetraethyllead		B-1	201-075-4	78-00-2	19-Dec-2012	0.1% by weight (w/w)	
Sulfurous acid, lead salt, dibasic		B-1	263-467-1	62229-08-7	19-Dec-2012	0.1% by weight (w/w)	
Silicic acid, lead salt		B-1	234-363-3	11120-22-2	19-Dec-2012	0.1% by weight (w/w)	
	with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DS), the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008	B-1				0.1% by weight (w/w)	
Silicic acid (H2SiO5), barium salt (1:1), lead-doped		B-1	272-271-5	68784-75-8	19-Dec-2012		
Pyrochlore, antimony lead yellow		B-1	232-382-1	8012-00-8	19-Dec-2012	0.1% by weight (w/w)	
Pentalead tetraoxide sulphate		B-1	235-067-7	12065-90-6	19-Dec-2012	0.1% by weight (w/w)	
Pentacosafuorotridecanoic acid		B-1	276-745-2	72629-94-8	19-Dec-2012	0.1% by weight (w/w)	
Orange lead (lead tetroxide)		B-1	215-235-6	1314-41-6	19-Dec-2012	0.1% by weight (w/w)	
o-toluidine		B-1	202-429-0	95-53-4	19-Dec-2012	0.1% by weight (w/w)	
o-aminoazotoluene		B-1	202-591-2	97-56-3	19-Dec-2012	0.1% by weight (w/w)	
n-pentyl-isopentyl phthalate		B-1	-	776297-69-9	19-Dec-2012	0.1% by weight (w/w)	
N-methylacetamide		B-1	201-182-6	79-16-3	19-Dec-2012	0.1% by weight (w/w)	
N,N-dimethylformamide		B-1	200-679-5	68-12-2	19-Dec-2012	0.1% by weight (w/w)	
Methyloxirane (Propylene oxide)		B-1	200-879-2	75-56-9	19-Dec-2012	0.1% by weight (w/w)	
Methoxyacetic acid		B-1	210-894-6	625-45-6	19-Dec-2012	0.1% by weight (w/w)	
Lead titanium zirconium oxide		B-1	235-727-4	12626-81-2	19-Dec-2012	0.1% by weight (w/w)	
Lead titanium trioxide		B-1	235-038-9	12060-00-3	19-Dec-2012	0.1% by weight (w/w)	
Lead oxide sulfate		B-1	234-853-7	12036-76-9	19-Dec-2012	0.1% by weight (w/w)	
Lead monoxide (lead oxide)		B-1	215-267-0	1317-36-8	19-Dec-2012	0.1% by weight (w/w)	
Lead dinitrate		B-1	233-245-9	10099-74-8	19-Dec-2012	0.1% by weight (w/w)	
Lead cyanamidate		B-1	244-073-9	20837-86-9	19-Dec-2012	0.1% by weight (w/w)	
Lead bis(tetrafluoroborate)		B-1	237-486-0	13814-96-5	19-Dec-2012	0.1% by weight (w/w)	
	including cis- and trans- stereo isomeric forms and all possible combinations of the isomers	B-1	-	-	19-Dec-2012	0.1% by weight (w/w)	
Hexahydromethylphthalic anhydride		B-1	256-356-4	48122-14-1	19-Dec-2012	0.1% by weight (w/w)	
Hexahydro-1-methylphthalic anhydride		B-1	260-566-1	57110-29-9	19-Dec-2012	0.1% by weight (w/w)	
Hexahydro-3-methylphthalic anhydride		B-1	247-094-1	25550-51-0	19-Dec-2012	0.1% by weight (w/w)	
Hexahydromethylphthalic anhydride		B-1	243-072-0	19438-60-9	19-Dec-2012	0.1% by weight (w/w)	
Heptacosafuorotetradecanoic acid		B-1	206-803-4	376-06-7	19-Dec-2012	0.1% by weight (w/w)	
Henicosafuoroundecanoic acid		B-1	218-165-4	2058-94-8	19-Dec-2012	0.1% by weight (w/w)	
Furan		B-1	203-727-3	110-00-9	19-Dec-2012	0.1% by weight (w/w)	
Fatty acids, C16-18, lead salts		B-1	292-966-7	91031-62-8	19-Dec-2012	0.1% by weight (w/w)	
Dioxisbis(stearato)trilead		B-1	235-702-8	12578-12-0	19-Dec-2012	0.1% by weight (w/w)	
Dinoseb (6-sec-butyl-2,4-dinitrophenol)		B-1	201-861-7	88-85-7	19-Dec-2012	0.1% by weight (w/w)	
Dimethyl sulphate		B-1	201-058-1	77-78-1	19-Dec-2012	0.1% by weight (w/w)	
Diisopentyl phthalate		B-1	210-088-4	605-50-5	19-Dec-2012	0.1% by weight (w/w)	
Diethyl sulphate		B-1	200-589-6	64-67-5	19-Dec-2012	0.1% by weight (w/w)	
Dibutyltin dichloride (DBTC)		B-1	211-670-0	683-18-1	19-Dec-2012	0.1% by weight (w/w)	
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)		B-1	204-650-8	123-77-3	19-Dec-2012	0.1% by weight (w/w)	
	all possible combinations of the cis- and trans-isomers	B-1	-	-	19-Dec-2012	0.1% by weight (w/w)	
Cyclohexane-1,2-dicarboxylic anhydride		B-1	201-604-9	85-42-7	19-Dec-2012	0.1% by weight (w/w)	
Cyclohexane-1,2-dicarboxylic anhydride		B-1	238-009-9	14166-21-3	19-Dec-2012	0.1% by weight (w/w)	
trans-cyclohexane-1,2-dicarboxylic anhydride		B-1	236-086-3	13149-00-3	19-Dec-2012	0.1% by weight (w/w)	
cis-cyclohexane-1,2-dicarboxylic anhydride		B-1			19-Dec-2012	0.1% by weight (w/w)	
Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)		B-1	214-604-9	1163-19-5	19-Dec-2012	0.1% by weight (w/w)	

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Substance name	Description	A-RMS-05-03-103 ref.	EC No.	CAS No.	Date of inclusion	Limit	notes from
Biphenyl-4-ylamine		B-1	202-177-1	92-67-1	19-Dec-2012	0.1% by weight (w/w)	
Acetic acid, lead salt, basic		B-1	257-175-3	51404-69-4	19-Dec-2012	0.1% by weight (w/w)	
[Phthalato(2-)]dioxotrillead		B-1	273-688-5	69011-06-9	19-Dec-2012	0.1% by weight (w/w)	
6-methoxy-m-toluidine (p-cresidine)		B-1	204-419-1	120-71-8	19-Dec-2012	0.1% by weight (w/w)	
4-Nonylphenol, branched and linear	substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	B-1	-	-	19-Dec-2012	0.1% by weight (w/w)	
p-(1-methyloctyl)phenol		B-1	241-427-4	17404-66-9	19-Dec-2012	0.1% by weight (w/w)	
4-(1-ethyl-1-methylhexyl)phenol		B-1	257-907-1	52427-13-1	19-Dec-2012	0.1% by weight (w/w)	
Phenol, 4-nonyl-, branched		B-1	284-325-5	84852-15-3	19-Dec-2012	0.1% by weight (w/w)	
4-(1-Ethyl-1,4-dimethylpentyl)phenol		B-1	-	142731-63-3	19-Dec-2012	0.1% by weight (w/w)	
4-(1-Ethyl-1,3-dimethylpentyl)phenol		B-1	-	186825-36-5	19-Dec-2012	0.1% by weight (w/w)	
p-(1,1-dimethylheptyl)phenol		B-1	250-339-5	30784-30-6	19-Dec-2012	0.1% by weight (w/w)	
p-nonylphenol		B-1	203-199-4	104-40-5	19-Dec-2012	0.1% by weight (w/w)	
p-isononylphenol		B-1	247-770-6	26543-97-5	19-Dec-2012	0.1% by weight (w/w)	
4-(3-ethylheptan-2-yl)phenol		B-1	-	186825-39-8	19-Dec-2012	0.1% by weight (w/w)	
4-(1,1,5-Trimethylhexyl)phenol		B-1	-	521947-27-3	19-Dec-2012	0.1% by weight (w/w)	
Nonylphenol		B-1	246-672-0	25154-52-3	19-Dec-2012	0.1% by weight (w/w)	
Phenol, nonyl-, branched		B-1	291-844-0	90481-04-2	19-Dec-2012	0.1% by weight (w/w)	
Isononylphenol		B-1	234-284-4	11066-49-2	19-Dec-2012	0.1% by weight (w/w)	
4-methyl-m-phenylenediamine (toluene-2,4-diamine)		B-1	202-453-1	95-80-7	19-Dec-2012	0.1% by weight (w/w)	
4-aminoazobenzene		B-1	200-453-6	60-09-3	19-Dec-2012	0.1% by weight (w/w)	
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	covering well-defined substances and UVCB substances, polymers and homologues	B-1	-	-	19-Dec-2012	0.1% by weight (w/w)	
Polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenyl ether		B-1	-	9002-93-1	19-Dec-2012	0.1% by weight (w/w)	
2-[2-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxyethanol		B-1	-	2315-61-9	19-Dec-2012	0.1% by weight (w/w)	
20-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-3,6,9,12,15,18-hexaoxaicosan-1-ol		B-1	219-682-8	2497-59-8	19-Dec-2012	0.1% by weight (w/w)	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-		B-1	-	9036-19-5	19-Dec-2012	0.1% by weight (w/w)	
2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethanol		B-1	-	2315-67-5	19-Dec-2012	0.1% by weight (w/w)	
4,4'-oxydianiline and its salts		B-1	-	-	19-Dec-2012	0.1% by weight (w/w)	
4,4'-oxydianiline		B-1	202-977-0	101-80-4	19-Dec-2012	0.1% by weight (w/w)	
4,4'-methylenedi-α-toluidine		B-1	212-658-8	838-88-0	19-Dec-2012	0.1% by weight (w/w)	
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	ZOLDINE MS-PLUS	B-1	421-150-7	143860-04-2	19-Dec-2012	0.1% by weight (w/w)	
1-bromopropane (n-propyl bromide)		B-1	203-445-0	106-94-5	19-Dec-2012	0.1% by weight (w/w)	
1,2-diethoxyethane		B-1	211-076-1	629-14-1	19-Dec-2012	0.1% by weight (w/w)	
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear		B-1	284-032-2	84777-06-0	19-Dec-2012	0.1% by weight (w/w)	
α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	B-1	229-851-8	6786-83-0	18-Jun-2012	0.1% by weight (w/w)	
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)		B-1	202-959-2	101-61-1	18-Jun-2012	0.1% by weight (w/w)	
Lead(II) bis(methanesulfonate)	-	B-1	401-750-5	17570-76-2	18-Jun-2012	0.1% by weight (w/w)	
Formamide		B-1	200-842-0	75-12-7	18-Jun-2012	0.1% by weight (w/w)	
Diboron trioxide		B-1	215-125-8	1303-86-2	18-Jun-2012	0.1% by weight (w/w)	
[4-[[4-anilino-1-naphthyl]]4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	B-1	219-943-6	2580-56-5	18-Jun-2012	0.1% by weight (w/w)	
[4-[[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	B-1	208-953-6	548-62-9	18-Jun-2012	0.1% by weight (w/w)	
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)		B-1	202-027-5	90-94-8	18-Jun-2012	0.1% by weight (w/w)	
4,4'-bis(dimethylamino)-4''-(methylenamino)trityl alcohol	with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	B-1	209-218-2	561-41-1	18-Jun-2012	0.1% by weight (w/w)	
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	-	B-1	423-400-0	59653-74-6	18-Jun-2012	0.1% by weight (w/w)	
1,3,5-Tris[oxiran-2-ylmethyl]-1,3,5-triazine-2,4,6-trione (TGIC)		B-1	219-514-3	2451-62-9	18-Jun-2012	0.1% by weight (w/w)	
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)		B-1	203-977-3	112-49-2	18-Jun-2012	0.1% by weight (w/w)	
1, 2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)		B-1	203-794-9	110-71-4	18-Jun-2012	0.1% by weight (w/w)	
Zirconia Aluminosilicate Refractory Ceramic Fibres	are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight	B-1	-	-	19-Dec-2011	0.1% by weight (w/w)	
Refractories, fibers, aluminosilicate		B-1	-	142844-00-6	19-Dec-2011	0.1% by weight (w/w)	
Trilead diarsenate		B-1	222-979-5	3687-31-8	19-Dec-2011	0.1% by weight (w/w)	
Potassium hydroxyoctaoxodizincatedichromate		B-1	234-329-8	11103-86-9	19-Dec-2011	0.1% by weight (w/w)	
Phenolphthalein		B-1	201-004-7	77-09-8	19-Dec-2011	0.1% by weight (w/w)	
Pentazinc chromate octahydroxide		B-1	256-418-0	49663-84-5	19-Dec-2011	0.1% by weight (w/w)	
N,N-dimethylacetamide		B-1	204-826-4	127-19-5	19-Dec-2011	0.1% by weight (w/w)	
Lead styphnate		B-1	239-290-0	15245-44-0	19-Dec-2011	0.1% by weight (w/w)	
Lead dipicrate		B-1	229-335-2	6477-64-1	19-Dec-2011	0.1% by weight (w/w)	
Lead diazide, Lead azide		B-1	236-542-1	13424-46-9	19-Dec-2011	0.1% by weight (w/w)	
Formaldehyde, oligomeric reaction products with aniline		B-1	500-036-1	25214-70-4	19-Dec-2011	0.1% by weight (w/w)	
Dichromium tris(chromate)		B-1	246-356-2	24613-89-6	19-Dec-2011	0.1% by weight (w/w)	

European Chemicals Agency (ECHA) Candidate List of substances of very high concern for Authorisation
Candidate List of SVHC for authorisation (published in accordance with Article 59(10) of the REACH Regulation)
Note: Group entries are split in different rows.

Source: <https://echa.europa.eu/candidate-list-table>

Date of Last Update to List: 11/27/2022

Substance name	Description	A-RMS-05-03-103 ref.	EC No.	CAS No.	Date of inclusion	Limit	notes from
Calcium arsenate		B-1	231-904-5	7778-44-1	19-Dec-2011	0.1% by weight (w/w)	
Bis(2-methoxyethyl) phthalate		B-1	204-212-6	117-82-8	19-Dec-2011	0.1% by weight (w/w)	
Bis(2-methoxyethyl) ether		B-1	203-924-4	111-96-6	19-Dec-2011	0.1% by weight (w/w)	
Arsenic acid		B-1	231-901-9	7778-39-4	19-Dec-2011	0.1% by weight (w/w)	
	are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less than two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight	B-1	-	-	19-Dec-2011	0.1% by weight (w/w)	
Aluminosilicate Refractory Ceramic Fibres		B-1	-	142844-00-6	19-Dec-2011	0.1% by weight (w/w)	
Refractories, fibers, aluminosilicate		B-1	-	142844-00-6	19-Dec-2011	0.1% by weight (w/w)	
4-(1,1,1,3,3-tetramethylbutyl)phenol		B-1	205-426-2	140-66-9	19-Dec-2011	0.1% by weight (w/w)	
2-Methoxyaniline, o-Anisidine		B-1	201-963-1	90-04-0	19-Dec-2011	0.1% by weight (w/w)	
2,2'-dichloro-4,4'-methylenedianiline		B-1	202-918-9	101-14-4	19-Dec-2011	0.1% by weight (w/w)	
1,2-dichloroethane		B-1	203-458-1	107-06-2	19-Dec-2011	0.1% by weight (w/w)	
Strontium chromate		B-1	232-142-6	7789-06-2	20-Jun-2011	0.1% by weight (w/w)	
Hydrazine		B-1	206-114-9	302-01-2, 7803-57-8	20-Jun-2011	0.1% by weight (w/w)	
2-ethoxyethyl acetate		B-1	203-839-2	111-15-9	20-Jun-2011	0.1% by weight (w/w)	
1-Methyl-2-pyrrolidone (NMP)		B-1	212-828-1	872-50-4	20-Jun-2011	0.1% by weight (w/w)	
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters		B-1	271-084-6	68515-42-4	20-Jun-2011	0.1% by weight (w/w)	
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich		B-1	276-158-1	71888-89-6	20-Jun-2011	0.1% by weight (w/w)	
1,2,3-trichloropropane		B-1	202-486-1	96-18-4	20-Jun-2011	0.1% by weight (w/w)	
Cobalt(II) sulphate		B-1	233-334-2	10124-43-3	15-Dec-2010	0.1% by weight (w/w)	
Cobalt(II) dinitrate		B-1	233-402-1	10141-05-6	15-Dec-2010	0.1% by weight (w/w)	
Cobalt(II) diacetate		B-1	200-755-8	71-48-7	15-Dec-2010	0.1% by weight (w/w)	
Cobalt(II) carbonate		B-1	208-169-4	513-79-1	15-Dec-2010	0.1% by weight (w/w)	
Chromium trioxide		B-1	215-607-8	1333-82-0	15-Dec-2010	0.1% by weight (w/w)	
Acids generated from chromium trioxide and their oligomers		B-1	-	-	15-Dec-2010	0.1% by weight (w/w)	
Chromic acid		B-1	231-801-5	7738-94-5	15-Dec-2010	0.1% by weight (w/w)	
Oligomers of chromic acid and dichromic acid		B-1	-	-	15-Dec-2010	0.1% by weight (w/w)	
Dichromic acid		B-1	236-881-5	13530-68-2	15-Dec-2010	0.1% by weight (w/w)	
2-methoxyethanol		B-1	203-713-7	109-86-4	15-Dec-2010	0.1% by weight (w/w)	
2-ethoxyethanol		B-1	203-804-1	110-80-5	15-Dec-2010	0.1% by weight (w/w)	
Trichloroethylene		A17, B-1	201-167-4	79-01-6	18-Jun-2010	0.1% by weight (w/w)	
Tetraboron disodium heptaoxide, hydrate		B-1	235-541-3	12267-73-1	18-Jun-2010	0.1% by weight (w/w)	
Sodium chromate		B-1	231-889-5	7775-11-3	18-Jun-2010	0.1% by weight (w/w)	
Potassium dichromate		B-1	231-906-6	7778-50-9	18-Jun-2010	0.1% by weight (w/w)	
Potassium chromate		B-1	232-140-5	7789-00-6	18-Jun-2010	0.1% by weight (w/w)	
Disodium tetraborate, anhydrous		B-1	215-540-4	12179-04-3, 1303-96-4, 1330-43-4	18-Jun-2010	0.1% by weight (w/w)	
Boric acid	EC No. 233-139-2 and EC No. 234-343-4	B-1	-	-	18-Jun-2010	0.1% by weight (w/w)	
Boric acid, crude natural		B-1	234-343-4	11113-50-1	18-Jun-2010	0.1% by weight (w/w)	
Boric acid		B-1	233-139-2	10043-35-3	18-Jun-2010	0.1% by weight (w/w)	
Ammonium dichromate		B-1	232-143-1	7789-09-5	18-Jun-2010	0.1% by weight (w/w)	
Acrylamide		B-1	201-173-7	79-06-1	30-Mar-2010	0.1% by weight (w/w)	
Tris(2-chloroethyl) phosphate		B-1	204-118-5	115-96-8	13-Jan-2010	0.1% by weight (w/w)	
Pitch, coal tar, high-temp.	-	B-1	266-028-2	65996-93-2	13-Jan-2010	0.1% by weight (w/w)	
Lead sulphochromate yellow (C.I. Pigment Yellow 34)	-	B-1	215-693-7	1344-37-2	13-Jan-2010	0.1% by weight (w/w)	
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	-	B-1	235-759-9	12656-85-8	13-Jan-2010	0.1% by weight (w/w)	
Lead chromate		B-1	231-846-0	7758-97-6	13-Jan-2010	0.1% by weight (w/w)	
Diisobutyl phthalate (DIBP)		A21, B-1	201-553-2	84-69-5	13-Jan-2010	0.1% by weight (w/w)	
Anthracene oil, anthracene-low	-	B-1	292-604-8	90640-82-7	13-Jan-2010	0.1% by weight (w/w)	
Anthracene oil, anthracene paste, distn. lights	-	B-1	295-278-5	91995-17-4	13-Jan-2010	0.1% by weight (w/w)	
Anthracene oil, anthracene paste, anthracene fraction	-	B-1	295-275-9	91995-15-2	13-Jan-2010	0.1% by weight (w/w)	
Anthracene oil, anthracene paste	-	B-1	292-603-2	90640-81-6	13-Jan-2010	0.1% by weight (w/w)	
Anthracene oil	-	B-1	292-602-7	90640-80-5	13-Jan-2010	0.1% by weight (w/w)	
2,4-dinitrotoluene		B-1	204-450-0	121-14-2	13-Jan-2010	0.1% by weight (w/w)	
Triethyl arsenate	-	B-1	427-700-2	15606-95-8	28-Oct-2008	0.1% by weight (w/w)	
Sodium dichromate		B-1	234-190-3	10588-01-9, 7789-12-0	28-Oct-2008	0.1% by weight (w/w)	
Lead hydrogen arsenate		B-1	232-064-2	7784-40-9	28-Oct-2008	0.1% by weight (w/w)	
Hexabromocyclododecane (HBCDD)	and all major diastereoisomers identified	B-1	-	-	28-Oct-2008	0.1% by weight (w/w)	
1,2,5,6,9,10-hexabromocyclododecane		B-1	221-695-9	3194-55-6	28-Oct-2008	0.1% by weight (w/w)	
Hexabromocyclododecane		B-1	247-148-4	25637-99-4	28-Oct-2008	0.1% by weight (w/w)	
alpha-hexabromocyclododecane		B-1	-	134237-50-6	28-Oct-2008	0.1% by weight (w/w)	
beta-hexabromocyclododecane		B-1	-	134237-51-7	28-Oct-2008	0.1% by weight (w/w)	
gamma-hexabromocyclododecane		B-1	-	134237-52-8	28-Oct-2008	0.1% by weight (w/w)	
Dibutyl phthalate (DBP)		A20, B-1	201-557-4	84-74-2	28-Oct-2008	0.1% by weight (w/w)	
Diarsenic trioxide		B-1	215-481-4	1327-53-3	28-Oct-2008	0.1% by weight (w/w)	
Diarsenic pentaoxide		B-1	215-116-9	1303-28-2	28-Oct-2008	0.1% by weight (w/w)	
Cobalt dichloride		B-1	231-589-4	7646-79-9	28-Oct-2008	0.1% by weight (w/w)	
	Trisubstituted organotin compounds (including tributyltin (TBT) compounds and triphenyltin (TPT) compounds)	A15, B-1	200-268-0	56-35-9	28-Oct-2008	0.1% by weight (w/w)	
Bis(tributyltin) oxide (TBTO)		A18, B-1	204-211-0	117-81-7	28-Oct-2008	0.1% by weight (w/w)	
Bis (2-ethylhexyl)phthalate (DEHP)		A19, B-1	201-622-7	85-68-7	28-Oct-2008	0.1% by weight (w/w)	
Benzyl butyl phthalate (BBP)		B-1	204-371-1	120-12-7	28-Oct-2008	0.1% by weight (w/w)	
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)		A14, B-1	287-476-5	85535-84-8	28-Oct-2008	0.1% by weight (w/w)	
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)		B-1	201-329-4	81-15-2	28-Oct-2008	0.1% by weight (w/w)	
4,4'- Diaminodiphenylmethane (MDA)		B-1	202-974-4	101-77-9	28-Oct-2008	0.1% by weight (w/w)	

European Restriction of Hazardous Substances (RoHS)
Directive 2011/65/EU (RoHS, RoHS 2 & RoHS 3)

Source: [2022 RoHS Compliance Guide: Regulations, 10 Substances, Exemptions \(rohsguide.com\)](https://rohsguide.com)

Date of Last Update to List: 11/27/2022

Substance name	Description	EC No.	CAS No.	Date of inclusion	Limit	notes from
Lead (Pb) and its compounds	A3	231-100-4	7439-92-1	6/8/2011	< 1000 ppmw	
Mercury (Hg) and its compounds	A4	-	7439-97-6	6/8/2011	< 100 ppmw	
Cadmium (Cd) and its compounds	A1	-	7440-43-9	6/8/2011	< 100 ppmw	
Hexavalent chromium (Cr6+) and its compounds	A2	-	18540-29-9	6/8/2011	< 1000 ppmw	
Polybrominated biphenyls (PBB)	A5	-	-	6/8/2011	< 1000 ppmw & Br < 900ppmw	
Polybrominated diphenyl ethers (PBDE)	A6	-	-	6/8/2011	<10 ppmw individually and <500 ppm for sum of total PBDEs	
Bis(2-ethylhexyl) phthalate (DEHP)	A18	-	-	3/31/2015	< 1000 ppmw	
Butyl benzyl phthalate (BBP)	A19	-	-	3/31/2015	< 1000 ppmw	
Dibutyl phthalate (DBP)	A20	-	-	3/31/2015	< 1000 ppmw	
Diisobutyl phthalate (DIBP)	A21	-	-	3/31/2015	< 1000 ppmw	

European Waste from Electrical and Electronic Equipment (WEEE)

Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE) (recast) Text with EEA relevance

Source: <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32012L0019>

Date of Last Update to List: 11/27/2022

Substance name	Description	EC No.	CAS No.	Date of inclusion	Limit	notes from
Chlorofluorocarbons (CFC)		-	-	2/1/2003	Not intentionally added	
Hydrocarbons (HC)		-	-	2/1/2003	Not intentionally added	
Hydrochlorofluorocarbons (HCFC)		-	-	2/1/2003	Not intentionally added	
Hydrofluorocarbons (HFC)		-	-	2/1/2003	Not intentionally added	
Polychlorinated biphenyls (PCB)	A11	-	-	2/1/2003	Not intentionally added	
Brominated flame retardants		-	-	2/1/2003	Not intentionally added	
Polychlorinated naphthalenes (PCN)	A12			2/1/2003	Not intentionally added	
Polychlorinated terphenyls (PCT)		-	-	2/1/2003	Not intentionally added	
Mercury (Hg)	A4	-	-	2/1/2003	Not intentionally added	
Asbestos and its compounds (asbestos waste and components which contain asbestos)	A7	-	-	2/1/2003	Not intentionally added	
Ozone-depleting substances (ODS)	A10			7/24/2012	Not intentionally added	
radioactive substances	A13			11/27/2022	Not intentionally added	
Uranium and Uranium containing materials	B-4.1			11/27/2022	Not intentionally added	
Plutonium and Plutonium containing materials	B-4.2			11/27/2022	Not intentionally added	
Thorium and Thorium containing materials	B-4.3			11/27/2022	Not intentionally added	
Deuterium and deuterium containing materials	B-4.4			11/27/2022	Not intentionally added	
Heavy Water (Deuterium Oxide)	B-4.5			11/27/2022	Not intentionally added	

Restrictions on the marketing and use of certain dangerous substances and preparations (perfluorooctane sulfonates)
DIRECTIVE 2006/122/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 12 December 2006

Source: <https://www.legislation.gov.uk/eudr/2006/122/2020-01-31>

Date of Last Update to List: 11/27/2022

[illegible]

STOCKHOLM CONVENTION ON PERSISTENT ORGANIC POLLUTANTS (POPs)
2006/507/EC: Council Decision of 14 October 2004 concerning the conclusion, on behalf of the European Community, of the Stockholm Convention on Persistent Organic Pollutants

Source: <https://www.legislation.gov.uk/eudr/2006/122/2020-01-31>
Date of Last Update to List: 11/27/2022

Substance name	Description	EC No.	CAS No.	Date of inclusion	Limit	notes from f
Aldrin			309-00-2	10/14/2004	Not Intentionally added	
Chlordane			57-74-9	10/14/2004	Not Intentionally added	
Dieldrin			60-57-1	10/14/2004	Not Intentionally added	
Endrin			72-20-8	10/14/2004	Not Intentionally added	
Heptachlor			76-44-8	10/14/2004	Not Intentionally added	
Hexachlorobenzene			118-74-1	10/14/2004	Not Intentionally added	
Mirex			2385-85-5	10/14/2004	Not Intentionally added	
Toxaphene			8001-35-2	10/14/2004	Not Intentionally added	
Polychlorinated Biphenyls (PCB)				10/14/2004	Not Intentionally added	
Notes: except as otherwise specified in this Convention, quantities of a chemical occurring as unintentional trace contaminants in products and articles shall not be considered to be listed in this Annex;						

Electrochemical Commission (IEC) 61249-2-21 (halogen-free)

Source: <https://webstore.iec.ch/publication/59859>

Date of Last Update to List: 11/27/2022

Substance name	Description	EC No.	CAS No.	Date of inclusion	Limit	notes from REC Sili
Chlorine	A23			11/27/2022	≤ 900ppm	Intentionally in Chlorosilane product
Bromine	A23			11/27/2022	≤ 900ppm	
Total Halogens	A23			11/27/2022	≤ 1500ppm	

Source: <http://www.chemicalweapon.url.tw/PDF/A.pdf>

Date of Last Update to List: 11/27/2022

項目	CCC Code	中 文 名 稱	物 質 名 稱	CAS No.	化學式
A. 有毒化學品 Toxic chemicals					
1A01	2931.90.40.10-1	烷基(甲基,乙基,正或異丙基)氟膦酸烷基 (碳數≤10,含環烷)酯	O-Alkyl(C≤10, including cycloalkyl) alkyl (Me, Et, n-Pr or i-Pr) phosphonofluoridate	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{P}-\text{O}-\text{R}' \\ \\ \text{F} \end{array}$	$\begin{array}{l} \text{R} = \text{Me, Et, n-Pr or i-Pr} \\ \text{R}' = \text{C}\leq 10, \text{ including cycloalkyl} \end{array}$
		例: 甲氟膦酸異丙酯 (沙林) 甲氟膦酸品叻可啉酯 (索曼)	Eg: O-Isopropyl methylphosphonofluoridate (Sarin) O-Pinacolyl methylphosphonofluoridate (Soman)	[107-44-8] [96-64-0]	$\begin{array}{c} \text{O} \\ \parallel \\ \text{H}_3\text{C}-\text{P}-\text{O}-\text{CH}(\text{CH}_3)-\text{CH}_3 \\ \\ \text{F} \end{array}$ $\begin{array}{c} \text{O} \\ \parallel \\ \text{H}_3\text{C}-\text{P}-\text{O}-\text{CH}(\text{CH}_3)-\text{C}(\text{CH}_3)_2-\text{CH}_3 \\ \\ \text{F} \end{array}$
1A02	2931.90.40.20-9	N,N-二烷基(甲基,乙基,正或異丙基)胺基 氟膦酸烷基(碳數≤10,含環烷)酯	O-Alkyl (C≤10, including cycloalkyl) N,N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidocyanidates	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}_2\text{N}-\text{P}-\text{O}-\text{R}' \\ \\ \text{C}\equiv\text{N} \end{array}$	$\begin{array}{l} \text{R} = \text{Me, Et, n-Pr or i-Pr} \\ \text{R}' = \text{C}\leq 10, \text{ including cycloalkyl} \end{array}$
		例: N,N-二甲基胺基氟膦酸乙酯 (塔崩)	Eg: O-Ethyl-N,N-dimethyl phosphoramidocyanidate (Tabun)	[77-81-6]	$\begin{array}{c} \text{O} \\ \parallel \\ (\text{CH}_3)_2\text{N}-\text{P}-\text{O}-\text{C}_2\text{H}_5 \\ \\ \text{C}\equiv\text{N} \end{array}$
1A03	2931.90.40.30-7	烷基(甲基,乙基,正或異丙基)硫膦酸烷基 (氫或碳數≤10,含環烷)酯-S-2-二烷基(甲 基,乙基,正或異丙基)胺基乙酯 及其烷基 化或質子化鹽類	O-Alkyl(H or C≤10, including cycloalkyl) S-2-dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonothiolates and corresponding alkylated or protonated salt	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{P}-\text{O}-\text{R}' \\ \\ \text{S}-\text{C}_2\text{H}_4-\text{N R}''_2 \end{array}$	$\begin{array}{l} \text{R} = \text{Me, Et, n-Pr or i-Pr} \\ \text{R}' = \text{H or C}\leq 10, \text{ cycloalkyl} \\ \text{R}'' = \text{Me, Et, n-Pr or i-Pr} \end{array}$
		例: S-2-(N,N-二異丙基胺基)乙基甲硫膦酸乙 酯	Eg: O-Ethyl S-2-diisopropylaminoethyl methylphosphonothiolate (VX) <i>Sulfur mustards:</i>	[50782-69-9]	$\begin{array}{c} \text{O} \\ \parallel \\ \text{H}_3\text{C}-\text{P}-\text{O}-\text{C}_2\text{H}_5 \\ \\ \text{S}-\text{C}_2\text{H}_4-\text{N}(\text{CH}(\text{CH}_3)_2)_2 \end{array}$
1A04	2930.90.90.11-0	2-氯乙基氯甲基硫醚	2-Chloroethylchloromethylsulfide	[2625-76-5]	$\text{Cl CH}_2-\text{S}-\text{C}_2\text{H}_4 \text{ Cl}$
CWC 列管化學物質分類					

項目	CCC Code	中 文 名 稱	物 質 名 稱	CAS No.	化學式
1A04	2930.90.90.12-9	雙(2-氯乙基)硫醚 (芥子氣)	Bis(2-chloroethyl)sulfide (Mustard gas)	[505-60-2]	$\text{Cl C}_2\text{H}_4-\text{S}-\text{C}_2\text{H}_4 \text{ Cl}$
1A04	2930.90.90.13-8	雙(2-氯乙基硫基)甲烷	Bis(2-chloroethylthio)methane	[63869-13-6]	$\text{Cl C}_2\text{H}_4 \text{ S}-\text{CH}_2-\text{S C}_2\text{H}_4 \text{ Cl}$
1A04	2930.90.90.14-7	1,2-雙(2-氯乙基硫基)乙烷 (倍半芥子氣)	1,2-Bis(2-chloroethylthio)ethane (Sesquimustard)	[3563-36-8]	$\text{Cl C}_2\text{H}_4 \text{ S}-\text{C}_2\text{H}_4-\text{S C}_2\text{H}_4 \text{ Cl}$
1A04	2930.90.90.15-6	1,3-雙(2-氯乙基硫基)正丙烷	1,3-Bis(2-chloroethylthio)-n-propane	[63905-10-2]	$\text{Cl C}_2\text{H}_4 \text{ S}-\text{C}_3\text{H}_6-\text{S C}_2\text{H}_4 \text{ Cl}$
1A04	2930.90.90.16-5	1,4-雙(2-氯乙基硫基)正丁烷	1,4-Bis(2-chloroethylthio)-n-butane	[142868-93-7]	$\text{Cl C}_2\text{H}_4 \text{ S}-(\text{CH}_2)_4-\text{S C}_2\text{H}_4 \text{ Cl}$
1A04	2930.90.90.17-4	1,5-雙(2-氯乙基硫基)正戊烷	1,5-Bis(2-chloroethylthio)-n-pentane	[142868-94-8]	$\text{Cl C}_2\text{H}_4 \text{ S}-(\text{CH}_2)_5-\text{S C}_2\text{H}_4 \text{ Cl}$
1A04	2930.90.90.18-3	雙(2-氯乙基硫基)甲醚	Bis(2-chloroethylthiomethyl)ether	[63918-90-1]	$\text{O}(\text{CH}_2-\text{S}-\text{C}_2\text{H}_4\text{Cl})_2$
1A04	2930.90.90.19-2	雙(2-氯乙基硫基)乙醚 (O-芥子氣)	Bis(2-chloroethylthioethyl)ether (O-Mustard)	[63918-89-8]	$\text{O}(\text{C}_2\text{H}_4-\text{S}-\text{C}_2\text{H}_4\text{Cl})_2$
			<i>Lewisites:</i>		
1A05	2931.90.19.11-7	2-氯乙基二氯砷	2-Chlorovinylchloroarsine	[541-25-3]	$\text{Cl CH}=\text{CH}-\text{AsCl}_2$
1A05	2931.90.19.12-6	雙(2-氯乙基)氯砷	Bis(2-chlorovinyl)chloroarsine	[40334-69-8]	$(\text{Cl CH}=\text{CH})_2 \text{ AsCl}$
1A05	2931.90.19.13-5	參(2-氯乙基)砷	Tris(2-chlorovinyl)arsine	[40334-70-1]	$\text{As}(\text{CH}=\text{CH Cl})_3$
			<i>Nitrogen mustards:</i>		
1A06	2921.19.00.11-8	雙(2-氯乙基)乙胺	Bis(2-chloroethyl)ethylamine	[538-07-8]	$(\text{Cl C}_2\text{H}_4)_2 \text{ N C}_2\text{H}_5$
1A06	2921.19.00.12-7	雙(2-氯乙基)甲胺	Bis(2-chloroethyl)methylamine	[51-75-2]	$(\text{Cl C}_2\text{H}_4)_2 \text{ N CH}_3$
1A06	2921.19.00.13-6	參(2-氯乙基)胺	Tris(2-chloroethyl)amine	[555-77-1]	$\text{N}(\text{C}_2\text{H}_4 \text{ Cl})_3$
1A07	3002.90.90.20-0	石房蛤毒素 (腰鞭毛蟲毒素)	Saxitoxin	[35523-89-8]	
1A08	3002.90.90.30-8	蓖麻毒 (蓖麻子白蛋白)	Ricin	[9009-86-3]	
CWC 列管化學物質分類					

項目	CCC Code	中 文 名 稱	物 質 名 稱	CAS No.	化學式
B. 前驅物 Precursors					
1B09	2931.90.40.40-5	烷基(甲基,乙基,正或異丙基)膦酸二氟	Alkyl (Me, Et, n-Pr or i-Pr) phosphonyl difluorides	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{P}-\text{F} \\ \\ \text{F} \end{array}$	$\begin{array}{l} \text{R} = \text{Me, Et, n-Pr or i-Pr} \end{array}$
		例: 甲膦酸二氟	Eg: Methylphosphonyldifluoride (DF)	[676-99-3]	$\begin{array}{c} \text{O} \\ \parallel \\ \text{H}_3\text{C}-\text{P}-\text{F} \\ \\ \text{F} \end{array}$
1B10	2931.90.40.50-2	烷基(甲基,乙基,正或異丙基)膦酸二氯	O-Alkyl(H or C≤10, including cycloalkyl)		

List of Chemical Substances Regulated by CWC Convention (105 Old Tariff Rules). Category A
NOT INTENTIONALLY ADDED - Date of Inclusion 11/27/2022

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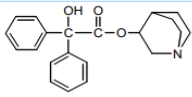
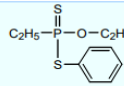
Date of Last Update to List: 11/27/2022


IB10	2931.90.40.20-2	含磷(或砷)的有机磷(或砷)化合物, 包括环状磷(或砷)化合物(含磷或砷数≤10, 含环烷)酯-2-二烷基(甲基, 乙基, 正或异丙基)胺基乙酯 及其烷基化或质子化盐类 例: 甲基膦酸乙酯-2-(N,N-二异丙基胺基)乙酯	O-2-dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonites and corresponding alkylated or protonated salts Eg: O-Ethyl O-2-diisopropylaminoethyl methylphosphonite (QL)	[57856-11-8]	$\begin{array}{c} R-P-O-R' \\ \\ O-C_2H_4-N(R'')_2 \end{array}$ <div>R = Me, Et, n-Pr or i-Pr R' = H or C≤10, cycloalkyl R'' = Me, Et, n-Pr or i-Pr</div>
IB11	2931.90.40.60-0	甲氧膦酸异丙酯 (氯沙林)	O-Isopropyl methylphosphonochloridate (Chlorosarin)	[1445-76-7]	$\begin{array}{c} O \\ \\ H_3C-P-O-C-CH_3 \\ \quad \\ Cl \quad H \end{array}$
IB12	2931.90.40.70-8	甲氧膦酸品纳可琳酯 (氯索曼)	O-Pinacolyl methylphosphonochloridate (Chlorosoman)	[7040-57-5]	$\begin{array}{c} O \\ \\ H_3C-P-O-C-C(CH_3)_3 \\ \quad \\ Cl \quad H \end{array}$

CWC 列管化學物質分類

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(二) 乙類列管化學物質 (Schedule 2 chemicals)					
項目	CCC Code	中文名稱	物質名稱	CAS No.	化學式
A. 有毒化學品 Toxic chemicals					
2A01	2930.90.90.20-9	S-[2-(二乙基胺基)乙基]硫膦酸二乙酯及其烷基化或質子化鹽類 (阿米通)	Amiton: O,O-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate and corresponding alkylated or protonated salts	[78-53-5]	$(C_2H_5)_2N-C_2H_4-S-P(=O)(OC_2H_5)_2$
2A02	2903.39.90.30-4	1,1,3,3,3-五氟-2-三氟甲基丙烯	PFIB: 1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-1-propene	[382-21-8]	$F_2C=C(CF_3)_2$
2A03*	2933.99.90.30-5	二苯乙醇酸-3-奎寧環基酯	BZ: 3-Quinuclidinyl benzilate	[6581-06-2]	
(* 申報門檻值不同)					
B. 前驅物 Precursors					
2B04	2931.90.40.80-6	除 CCC 2931.00.40.10, 2931.00.40.20, 2931.00.40.30, 2931.00.40.40, 2931.00.40.50, 2931.00.40.60 及 2931.00.40.70 項貨品外之含甲基、乙基或丙基之有機磷化合物, 但不含碳數更多的化合物 例: 甲膦酸二氯 甲膦酸二甲酯	Chemicals, except for those listed in Schedule 1, containing a phosphorus atom to which is bonded one methyl, ethyl or propyl (normal or iso) group but not further carbon atoms eg: Methylphosphonyl dichloride Dimethyl methylphosphonate	$R-P-X,Y,Z,\dots$; R = Me, Et, n-Pr or i-Pr [676-97-1] [756-79-6]	$H_3C-P(=O)(Cl)_2$ $H_3C-P(=O)(OCH_3)_2$
丁 (PSF)	2930.90.90.50-2	除外: 大福松: 乙基硫代硫膦酸乙酯-S-苯酯	Exemption: Fonofos: O-Ethyl S-phenyl ethylphosphono-thiolothionate	[944-22-9]	
CWC 列管化學物質分類					

項目	CCC Code	中文名稱	物質名稱	CAS No.	化學式
2B05	2929.90.00.30-9	N,N-二烷基 (甲基、乙基、正或異丙基)胺基膦酸二鹵化物	N,N-Dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidic dihalides	$R_2N-P(=O)(X)_2$	R = Me, Et, n-Pr or i-Pr X = F, Cl, Br, I
2B06	2929.90.00.40-7	N,N-二烷基 (甲基、乙基、正或異丙基)胺基膦酸二烷基 (甲基、乙基、正或異丙基) 酯	Dialkyl (Me, Et, n-Pr or i-Pr) N,N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidates	$R_2N-P(=O)(OR')_2$	R = Me, Et, n-Pr or i-Pr R' = Me, Et, n-Pr or i-Pr
2B07	2812.10.90.20-9	三氯化砷	Arsenic trichloride	[7784-34-1]	AsCl ₃
2B08	2918.19.90.10-5	2,2-二苯基-2-羥基乙酸	2,2-Diphenyl-2-hydroxyacetic acid	[76-93-7]	(C ₆ H ₅) ₂ C(OH)COOH
2B09	2933.99.90.40-3	3-羥基奎寧環	Quinuclidine-3-ol	[1619-34-7]	
2B10	2921.19.00.20-7	N,N-二烷基(甲基、乙基、正或異丙基)胺基-2-氯乙烷及其質子化鹽類	N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl -2-chlorides and corresponding protonated salts	R ₂ N-C ₂ H ₄ Cl	R = Me, Et, n-Pr or i-Pr
2B11	2922.19.00.19-9	其他 2-N,N-二烷基(甲基、乙基、正或異丙基)胺基乙醇及其質子化鹽類	other N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane- 2-ols and corresponding protonated salts	R ₂ N-C ₂ H ₄ OH	R = Me, Et, n-Pr or i-Pr
丁 (DOC)	2922.19.00.11-7	除外: N,N-二甲基胺基乙醇及其質子化鹽類	Exemption: N,N-Dimethylamino-ethanol and corresponding protonated salts	[108-01-0]	(CH ₃) ₂ N-CH ₂ CH ₂ -OH
丁 (DOC)	2922.19.00.12-6	除外: N,N-二乙基胺基乙醇及其質子化鹽類	Exemption: N,N-Diethylaminoethanol and corresponding protonated salts	[100-37-8]	(C ₂ H ₅) ₂ N-CH ₂ CH ₂ -OH
2B12	2930.90.90.30-7	2-[N,N-二烷基(甲基、乙基、正或異丙基)胺基]乙硫醇及其質子化鹽類	N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-thiols and corresponding protonated salts	R ₂ N-C ₂ H ₄ SH	R = Me, Et, n-Pr or i-Pr
2B13	2930.90.90.40-5	硫代雙乙醇 (硫二甘醇)	Bis(2-hydroxyethyl)sulfide (Thiodiglycol)	[111-48-8]	S(CH ₂ CH ₂ OH) ₂
2B14	2905.19.90.10-0	3,3-二甲基-2-丁醇 (品納可醇)	3,3-Dimethylbutane-2-ol (Pinacolyl alcohol)	[464-07-3]	(H ₃ C) ₃ C-CH(OH)-CH ₃
CWC 列管化學物質分類					

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序號	中文名稱	英文名稱	C.C.C Code	CAS No.
1	醋酸酐(乙酐)	Acetic anhydride	2915.24.00.00-2	108-24-7
	(其他名稱) 乙酸酐 醋酐 乙酐化氧	(Other names) Ethanoic anhydride; Ethanoyl ethanoate Acetyl acetate Acetyl oxide Acetic oxide AA		
2	苯醋酸	Benzeneacetic acid	2916.34.10.00-7	103-82-2
	(其他名稱) 苯乙酸 苯基丙氨酸 A-甲基苯甲酸 A-甲苯甲酸 苯基乙酸	(Other names) Phenylacetic acid 2-Phenylacetic acid α-toluic acid alpha-toluic acid alpha-tolylic acid		
3	氨基酸(鄰-胺基苯甲酸)	Anthranilic acid	2922.43.00.10-8	118-92-3
	(其他名稱) 鄰-氨基苯甲酸 鄰-氨基苯甲酸 2-氨基苯甲酸 1-氨基-2-苯甲酸 氨基苯甲酸 鄰胺苯酸 鄰-羧基苯胺	(Other names) Anthranic acid 2-Aminobenzoic acid		
4	2-乙醯胺基苯甲酸(N-乙醯2-Acetamidobenzoic acid (N-acetylanthranilic acid)		2924.23.00.10-0	89-52-1
	(其他名稱) 2-乙醯氨基苯甲酸 N-乙醯-鄰-氨基苯甲酸 乙醯基-鄰-胺基苯甲酸 鄰乙醯胺基苯甲酸 鄰乙醯氨基苯甲酸	(Other names) 2-(Acetylamino)-benzoic acid 2-Carboxyacetanilide o-Acetoaminobenzoic acid Acetylanthranilic acid		
5	異黃樟油素	Isosafrole	2932.91.00.00-9	120-58-1
	(其他名稱) 異黃樟素 異黃樟腦 1,2-(亞甲二氧基)-4-丙烯基苯 5-(1-丙烯基)-1,3-苯間二氧雜環戊烯 5-丙烯基-1,3-苯並二噁茂 4-丙烯基-1,2-亞甲二氧基苯 3,4-亞甲二氧-1-丙烯基	(Other names) (E)-5-(Prop-1-enyl)benzo[d][1,3]dioxole 5-(1-Propenyl)-1,3-benzodioxole 3,4-Methylenedioxyphenyl-1-propene 3,4-(Methylenedioxy)-1-propenylbenzene 3,4-(Methylenedioxy)propenylbenzene 3,4-Methylenedioxy-1-propenylbenzene 2-(Methylenedioxy)-4-propenyl-benzen 1,2-Methylenedioxy-4-propenylbenzol 4-Propenyl-1,2-methylenedioxybenzene 4-Propenylcatechol methylene ether		
6	胡椒醛(3, 4-亞甲基二氧基苯甲醛)	Piperonal	2932.93.00.00-7	120-57-0
	(其他名稱) 洋茉莉醛 胡椒甲醛 胡椒基醛 天芥菜精	(Other names) Piperonyl aldehyde Heliotropine Protocatechuic aldehyde methylene ether		

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序號	中文名稱	英文名稱	C.C.C Code	CAS No.
	3,4-亞甲基二氧苯甲醛 3,4-亞甲二氧苯甲醛 3,4-二氧亞甲基苯甲醛	3,4-(Methylenedioxy) benzaldehyde 1,3-Benzodioxole-5-carbaldehyde		
7	黃樟油素 (其他名稱) 黃樟素 黃樟腦 黃樟醚 5-(2-丙烯基)-1,3- 苯並間二氧雜環戊烯 4-烯丙基-1,2- 亞甲基二氧基苯 烯丙基鄰苯二酚亞甲醚 丙烯基二氧甲苯酯	Safrole (Other names) Shikimol 5-(2-Propenyl)-1,3-benzodioxole 5-Allylbenzo[d][1,3]dioxole; 3,4- Methylenedioxyphenyl-2-propene 1-Allyl-3,4-methylenedioxybenzene 3,4-Methylenedioxyallylbenzene 3-[3,4-(Methylenedioxy)phenyl]-1-propene 4-Allyl-1,2-methylenedioxybenzene 5-Allyl-1,3-benzodioxole	2932.94.00.00-6	94-59-7
8	1-(1, 3-苯並二噁茂-5- 基)-2-丙酮 (其他名稱) 胡椒基丙酮 胡椒基甲基甲酮 胡椒基甲基酮 1-(1, 3- 苯並間二氧雜環戊-5-烯 基)-2-丙酮 3,4-亞甲基二氧基苯基-2- 丙酮 3,4-亞甲基二氧基苯丙酮 1-(3,4-亞甲二氧基苯基)-2- 丙酮 3,4- 亞甲二氧基苯基甲基(甲)酮	1-(1,3-Benzodioxol-5-yl) Propan-2- one (Other names) 1-(1,3-Benzodioxol-5-yl)- 2-propanone 1-(1,3-Benzodioxol-5-yl) acetone 3,4-Methylene dioxyphenyl-2-propanone 1-(3,4-(Methylenedioxy)phenyl)-2- propanone 1-(Acetonyl)-3,4-methylenedioxybenzene 3,4-(Methylenedioxy)phenyl)-2-propanone 3,4-(Methylenedioxy)phenylpropan-2-one 1-[1,3-Benzodioxo-5-yl]- 2-Propanone	2932.92.00.00-8	4676-39-5
9	六氫吡啶 (其他名稱) 哌啶 派訂 五亞甲基胺 氮雜環己烷 氮己環 一氮六環	Piperidine (Other names) Hexahydroazine Azinane Hexahydropyridine Pentamethyleneamine	2933.32.00.10-8	110-89-4
10	亞硫醢氯 (其他名稱) 氯化亞碲 亞硫醢二氯 亞硫醢氯 氯化亞硫醢 氯化氯化硫 氯氯化硫 二氯亞碲 二氯氧硫	Thionyl chloride (Other names) Thionyl dichloride Sulfurous oxychloride; Sulfurous dichloride Sulfur chloride oxide Sulfinyl chloride Sulfinyl dichloride Sulfoxidechloride Sulfur oxide dichloride Sulfur monoxide dichloride Chloruredethionyle Dichlorosulfoxide	2812.17.00.00-5	9177719
11	氯化鈀	Palladium chloride	2843.90.00.10-6	1017647

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序號	中文名稱	英文名稱	C.C.C Code	CAS No.
	(其他名稱) 二氯化鈀 氯化亞鈀 氯化鈀(II)	(Other names) Palladium dichloride Palladium(II) chloride		
12	紅磷	Phosphorus,red	2804.70.00.10-7	7723-14-0
	(其他名稱) 赤磷	(Other names) Red phosphorus Phosphorus(red)		
13	碘	Iodine	2801.20.00.00-3	7553-56-2
14	氫碘酸	Hydriodic acid	2811.19.90.20-1	10034-85-2
	(其他名稱) 碘化氫(水溶液)	(Other names) Hydrogen iodide Hydriodic acid (aqueous solution) Hydriodic acid (aqueous solution) Iohydroic acid (aqueous solution)		
15	次磷酸	Hypophosphorous acid	2811.19.90.30-9	6303-21-5
	(其他名稱) 次亞磷酸 卑磷酸	(Other names) Phosphinic acid Hypophosphoeous acid Hydroxy(oxo)-λ5-phosphane Hydroxy-λ5-phosphanone Oxo-λ5-phosphanol Oxo-λ5-phosphinous acid Dihydridohydroxido-oxidophosphorus		
16	甲胺	Methylamine	2921.11.00.10-7	74-89-5
	(其他名稱) 單甲基胺 氨基甲烷 一甲胺 伯胺	(Other names) Aminomethane Methanamine Monomethylamine		
17	苯乙腈	Benzyl cyanide	2926.90.90.20-5	140-29-4
	(其他名稱) 苄腈 苄基腈 苄基腈 苄基腈 腈化苄 氯化苄基 α-苄基腈 ω-氰代甲苯 Ω-氰甲苯 (A-)苄基腈 苯乙腈	(Other names) 2-Phenylacetonitrile Phenylacetonitrile α-Tolunitrile Alpha-Tolunitrile A-Tolunitrile Tolunitrile Benzeneacetonitrile Phenyl acetyl nitrile (Cyanomethyl) benzene Acetic acid, phenyl-nitrile Acetonitrile, phenyl- Alpha-Cyanotoluene Omega-Cyanotoluene		

乙類
先驅化學品工業原料
之基本資料

序號	中文名稱	英文名稱	C.C.C Code	CAS No.
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Source: [https://www.prechem.org.tw/\(S\(r0cuse3r2fxgsp5522zp145\)\)/information/xInformation.aspx](https://www.prechem.org.tw/(S(r0cuse3r2fxgsp5522zp145))/information/xInformation.aspx)

Date of Last Update to List: 11/27/2022

序號	中文名稱	英文名稱	C.C.C Code	CAS No.
1	比重達1.2或濃度達39.1 w/w %之鹽酸 (其他名稱) 鹽酸 白鹽酸 鹽酸水 氯氫酸 氫氯酸 氯化氫(水溶液) (註：比重達1.2或濃度達39.1 w/w %水溶液)	Hydrogen chloride (hydrochloric acid) having a specific gravity reach 1.2 or Concentration 39.1 w/w % (Other names) Chlorohydric acid Hydrochloride Hydrogen chloride (aqueous solution) Muriatic acid Chlorane (Note: Having a specific gravity reach 1.2 or Concentration 39.1 w/w % aqueous solution)	2806.10.00.10-8	7647-01-0
2	比重達1.84或濃度95至98 w/w %之硫酸 (其他名稱) 澆水 鎔水 綠礬油 磺鎔水 (註：比重達1.84或濃度95至98 w/w %水溶液)	Sulphuric acid having a specific gravity reach 1.84 or Concentration 95~98 w/w % (Other names) Sulfuric acid Oil of vitriol (Note: Having a specific gravity reach 1.84 or Concentration 95~98 w/w % aqueous solution)	2807.00.10.10-7	7664-93-9
3	過錳酸鉀 (其他名稱) 高錳酸鉀 灰錳氧 PP粉	Potassium Permanganate	2841.61.00.00-5	7722-64-7
4	甲苯 (其他名稱) 甲基苯 苯基甲烷 苯甲烷	Toluene (Other names) Methylbenzene Toluol Phenylmethane Methylbenzol	2902.30.00.00-9	108-88-3
5	二乙醚(乙醚) (其他名稱) 二乙基醚 乙氧基乙烷 1,1'-氧二乙烷	Diethyl ether (Other names) Ethyl ether Ethyl oxide Ethoxyethane 3-Oxapentane Alcohol - ether 1,1'-oxybisethane	2909.11.00.00-5	60-29-7
6	丙酮 (其他名稱) 2-丙酮 二甲基甲酮 二甲基酮 二甲酮 β-酮基丙烷 醋酮 木酮	Acetone (Other names) Propanone 2-Propanone Propan-2-one Dimethylformaldehyde Dimethyl ketone β-Ketopropane	2914.11.00.00-8	67-64-1

Category A chemical precursor for industrial raw materials, please refer to the Taiwan IDB website
NOT INTENTIONALLY ADDED - Date of Inclusion 11/27/2022

Source: [https://www.prechem.org.tw/\(S\(r0cuse3r2fxgsp5522zp145\)\)/information/xInformation.aspx](https://www.prechem.org.tw/(S(r0cuse3r2fxgsp5522zp145))/information/xInformation.aspx)

Date of Last Update to List: 11/27/2022

序號	中文名稱	英文名稱	C.C.C Code	CAS No.
7	丁酮(甲基乙基酮)	Butanone (methyl ethyl ketone)	2914.12.00.00-7	78-93-3
	(其他名稱)	(Other names)		
	2-丁酮	2-Butanone		
	甲基乙基(甲)酮	Methyl propanone		
	甲乙酮	Ethyl methyl ketone; Methylacetone		
	甲基丙酮	MEK		
	乙基甲基甲酮			
	乙基甲基酮			
	2-羰基丁烷			
8	苯甲酸乙酯	Benzoic acid ethyl ester (Ethyl benzoate)	2916.31.00.10-0	93-89-0
	(其他名稱)	(Other name)		
	安息香酸乙酯	Benzene carboxylate		
	乙基苯酸			

Toxicity and chemical substances of concern

344 results (195 listed toxic)
Source: <https://toxicsubs.epa.gov.tw/English/Chemical>
Date of Last Update to List: 11/27/2022



Toxic and Chemical Substances Bureau
Environmental Protection Administration, Republic of China (Taiwan)

Type	Listed No.	Series No.	Name	Cas No.	UN No.	Toxicity Classify	Date of Inclusion	Limit	notes from REC Silicon
Concerned	1	1	Nitrous oxide	10024-97-2	1070		11/27/2022	0.1% by weight (w/w)	
Concerned	2	1	Ammonium nitrate	6484-52-2	1942		11/27/2022	0.1% by weight (w/w)	
Concerned	3	1	Hydrogen fluoride	7664-39-3	1052		11/27/2022	0.1% by weight (w/w)	
Toxic	1	1	Polychlorinated biphenyls	1336-36-3	2315	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	2	1	Chlordane	57-74-9	2995	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	3	1	Asbestos	1332-21-4	2212 (blue) - 2590 (white)	2	11/27/2022	0.1% by weight (w/w)	
Toxic	4	1	Dieldrin	60-57-1	2761	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	5	1	4,4-Dichlorodiphenyl-trichloroethane (DDT)	50-29-3	2761	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	6	1	Toxaphene	8001-35-2	2761	1	11/27/2022	0.1% by weight (w/w)	
Toxic	7	1	Pentachlorophenol	87-86-5	3155	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	7	2	Pentachlorophenyl laurate	3772-94-9	2588	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	8	1	Sodium pentachlorophenate	131-52-2	2567	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	9	1	Methyl mercury	22967-92-6	2024	1	11/27/2022	0.1% by weight (w/w)	
Toxic	10	1	Endrin	72-20-8	2761	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	11	1	Heptachlor	76-44-8	2761	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	12	1	Hexachlorocyclohexane	319-84-6 · 319-85-7 · 319-86-8 · 6108-10-7	2811 · 2761 · 2761 · -	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	13	1	Aldrin	309-00-2	2761	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	14	1	1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	2872	1,2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	15	1	Leptobos	21609-90-5	3464	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	16	1	Chlorobenzate	510-15-6	2996	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	17	1	Nitrofen	1836-75-5	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	18	1	Dinoseb	88-85-7	2779	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	19	1	Lindane (r-BHC, or r-HCH)	58-89-9	2761	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	22	1	Mercury	7439-97-6	2809	1	11/27/2022	0.1% by weight (w/w)	
Toxic	23	1	Pentachloronitrobenzene	82-68-8	3077	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	24	1	Diaminodis	1596-84-5	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	25	1	Cyanazine	21725-46-2	2763	2	11/27/2022	0.1% by weight (w/w)	
Toxic	26	1	Fenchlorphos	299-84-3	2811	1	11/27/2022	0.1% by weight (w/w)	
Toxic	27	1	Captafol	6/1/2425	3077	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	28	1	Captan	133-06-2	3077	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	29	1	Folpet	133-07-3	3077	3	11/27/2022	0.1% by weight (w/w)	
Toxic	30	1	Cyhexatin	13121-70-5	3146	3	11/27/2022	0.1% by weight (w/w)	
Toxic	31	1	a-Bromobenzyl cyanide	5798-79-8	1694	3	11/27/2022	0.1% by weight (w/w)	
Toxic	32	1	Bis-Chloromethyl ether	542-88-1	2249	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	33	1	Bis-Chloromethyl ether	542-88-1	2249	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	33	1	P-Nitrobiphenyl	92-93-3	3077	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	33	1	P-Nitrobiphenyl	92-93-3	3077	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	34	1	P-Aminobiphenyl	92-67-1	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	34	1	P-Aminobiphenyl	92-67-1	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	34	2	P-Aminobiphenyl Hydrochloride	2113-61-3	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	35	1	2-Naphthylamine	91-59-8	1650	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	35	1	2-Naphthylamine	91-59-8	1650	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	35	2	2-Naphthylamine Acetate	553-00-4	-	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	35	2	2-Naphthylamine Acetate	553-00-4	-	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	35	3	2-Naphthylamine Hydrochloride	612-52-2	2811	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	35	3	2-Naphthylamine Hydrochloride	612-52-2	2811	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	1	Benidine	92-87-5	1885	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	1	Benidine	92-87-5	1885	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	2	Benidine Acetate	36341-27-2	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	2	Benidine Acetate	36341-27-2	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	3	Benidine Sulfate	531-86-2	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	3	Benidine Sulfate	531-86-2	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	4	Benidine Dihydrochloride	531-85-1	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	4	Benidine Dihydrochloride	531-85-1	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	5	Benidine Dihydrofluoride	41766-73-8	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	5	Benidine Dihydrofluoride	41766-73-8	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	6	Benidine Perchlorate	28806-76-6	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	6	Benidine Perchlorate	28806-76-6	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	7	Benidine perchlorate	38668-12-1	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	7	Benidine perchlorate	38668-12-1	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	8	Benidine Dipchlorate	41195-21-5	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	36	8	Benidine Dipchlorate	41195-21-5	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	37	1	Cadmium	7440-43-9	3288	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	37	1	Cadmium	7440-43-9	3288	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	37	2	Cadmium oxide	1306-19-0	2570	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	37	2	Cadmium oxide	1306-19-0	2570	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	37	3	Cadmium carbonate	513-78-0	2570	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	37	3	Cadmium carbonate	513-78-0	2570	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	37	4	Cadmium sulfide	1306-23-6	2570	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	37	4	Cadmium sulfide	1306-23-6	2570	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	37	5	Cadmium Sulfate	10124-36-4	2570	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	37	5	Cadmium Sulfate	10124-36-4	2570	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	37	6	Cadmium nitrate	10325-94-7	3087	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	37	7	Cadmium Chloride	10108-64-2	2570	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	38	1	Aniline	62-53-3	1547	3	11/27/2022	0.1% by weight (w/w)	
Toxic	39	1	p-Aminotoluene	95-53-4	1708	1	11/27/2022	0.1% by weight (w/w)	
Toxic	39	2	m-Aminotoluene	108-44-1	1708	1	11/27/2022	0.1% by weight (w/w)	
Toxic	39	3	p-Aminotoluene	106-49-0	3451	1	11/27/2022	0.1% by weight (w/w)	
Toxic	40	1	1-Naphthylamine	134-32-7	2077	1	11/27/2022	0.1% by weight (w/w)	
Toxic	41	1	3,3'-Dimethoxybenzidine	119-90-4	2811	1	11/27/2022	0.1% by weight (w/w)	
Toxic	42	1	3,3'-Dichlorobenzidine	91-94-1	3077	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	43	1	3,3'-Dimethyl-4,4'-biphenyl-4,4'-diamine	119-93-7	3077	1	11/27/2022	0.1% by weight (w/w)	
Toxic	46	8	Copper (II) Cyanide	14763-77-0	1587	2	11/27/2022	0.1% by weight (w/w)	
Toxic	46	9	Copper Sodium Cyanide	14264-31-4	2316	3	11/27/2022	0.1% by weight (w/w)	
Toxic	47	1	Phosgene	75-44-5	1076	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	48	1	Methyl isocyanate	624-83-9	2480	3	11/27/2022	0.1% by weight (w/w)	
Toxic	49	1	Chlorine	7782-50-5	1017	3	11/27/2022	0.1% by weight (w/w)	REC Chlorosilane Products may contain over the limit of this item
Toxic	50	1	Acrylamide	79-06-1	2074	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	51	1	Acrylonitrile	107-13-1	1093	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	52	1	Benzene	71-43-2	1114	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	53	1	Carbon tetrachloride	56-23-5	1846	1	11/27/2022	0.1% by weight (w/w)	
Toxic	54	1	Chloroform	67-66-3	1888	1	11/27/2022	0.1% by weight (w/w)	
Toxic	55	1	Chromium <VI>-trioxide	1333-82-0	1463	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	2	Potassium dichromate	7778-50-9	3086	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	3	Sodium dichromate, dihydrate Sodium dichromate	7789-12-0 · 10588-01-9	3087 · 1479	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	4	Ammonium dichromate	9/5/7789	1439	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	5	Calcium dichromate	14307-33-6	1479	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	6	Cupric dichromate	13675-47-3	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	7	Lithium dichromate	13843-81-7	3288	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	8	Mercuric dichromate	10/8/7789	2025	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	9	Zinc dichromate	14018-95-2	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	10	Ammonium chromate	7788-98-9	1479	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	11	Barium chromate	10294-40-3	1479	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	12	Calcium chromate	13765-19-0	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	13	Cupric chromate	13548-42-0	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	14	Ferric chromate	10294-52-7	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	15	Lead chromate	7758-97-6	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	16	Lead chromate oxide	18454-12-1	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	17	Lithium chromate	14307-35-8	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	18	Potassium Chromate	7789-00-6	3288	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	19	Silver chromate	1/2/7784	3087	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	20	Sodium Chromate	1/3/7775	3288	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	21	Stannic chromate	3845-71-2	3288	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	22	Strontium chromate	6/2/7789	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	23	Zinc chromate (Zinc chromate hydroxide)	13530-65-9	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	24	Chromium carbonyl	13007-92-6	3281	2	11/27/2022	0.1% by weight (w/w)	

Toxicity and chemical substances of concern

344 results (195 listed toxic)
Source: <https://toxicsms.epa.gov.tw/English/Chemical>
Date of Last Update to List: 11/27/2022



Toxic and Chemical Substances Bureau
Environmental Protection Administration, Republic of China (Taiwan)

Type	Listed No.	Series No.	Name	Cas No.	UN No.	Toxicity Classify	Date of Inclusion	Limit	notes from REC Silicon
Toxic	55	25	Chromated Copper Arsenate	37337-13-6	2759	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	55	27	Lead sulfochromate yellow<C.I. Pigment Yellow 34>	1344-37-2	2291	2	11/27/2022	0.1% by weight (w/w)	
Toxic	56	1	2,4,6-Trichlorophenol	88-06-2	2020	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	56	2	2,4,5-Trichlorophenol	95-95-4	2020	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	57	1	Chloromethyl methyl ether	107-30-2	1239	1,2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	58	1	Hexachlorobenzene	118-74-1	2729	1	11/27/2022	0.1% by weight (w/w)	
Toxic	59	1	Nickel sulfide	12035-72-2	3077	2	11/27/2022	0.1% by weight (w/w)	
Toxic	60	1	Ethylene dibromide	106-93-4	1605	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	61	1	Ethylene oxide	75-21-8	1040	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	62	1	1,3-Butadiene	106-99-0	1010	2	11/27/2022	0.1% by weight (w/w)	
Toxic	63	1	Tetrachloroethylene	127-18-4	1897	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	64	1	Trichloroethylene	79-01-6	1710	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	65	1	Vinyl chloride	75-01-4	1086	2	11/27/2022	0.1% by weight (w/w)	
Toxic	66	1	Formaldehyde	50-00-0	2209	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	67	1	4,4'-Methylenbis (2-chloroaniline)	101-14-4	3077	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	68	1	Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	-	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	68	1	Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	-	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	68	2	Di-n-octyl phthalate (DNOP, DOP)	117-84-0	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	68	2	Di-n-octyl phthalate (DNOP, DOP)	117-84-0	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	68	3	Benzyl butyl phthalate (BBP)	85-68-7	3082	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	68	3	Benzyl butyl phthalate (BBP)	85-68-7	3082	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	68	4	Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	68	4	Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	68	5	Di-isodecyl phthalate (DIDP)	26761-40-0 68515-49-1	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	68	5	Di-isodecyl phthalate (DIDP)	26761-40-0 68515-49-1	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	68	6	Diethyl phthalate (DEP)	84-66-2	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	68	6	Diethyl phthalate (DEP)	84-66-2	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	68	7	1,2-Benzenedicarboxylic acid, di-C7-11, branched and linear alkyl esters< DINUP>	68515-42-4	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	68	7	1,2-Benzenedicarboxylic acid, di-C7-11, branched and linear alkyl esters< DINUP>	68515-42-4	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	68	8	1,2-Benzenedicarboxylic acid, di-C6-8, branched alkyl esters, C7-rich <DIHP>	71888-89-6	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	68	8	1,2-Benzenedicarboxylic acid, di-C6-8, branched alkyl esters, C7-rich <DIHP>	71888-89-6	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	68	9	Di-n-propyl Phthalate (DPP)	131-16-8	3082	4	11/27/2022	0.1% by weight (w/w)	
Toxic	68	9	Di-n-propyl Phthalate (DPP)	131-16-8	3082	4	11/27/2022	0.1% by weight (w/w)	
Toxic	68	10	Diisobutyl phthalate	84-69-5	3082	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	68	10	Diisobutyl phthalate	84-69-5	3082	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	68	21	Dibenzyl phthalate< DBPP>	84-62-8	3077	4	11/27/2022	0.1% by weight (w/w)	
Toxic	68	22	Dibenzyl phthalate< DBPP>	523-31-9	3077	4	11/27/2022	0.1% by weight (w/w)	
Toxic	68	23	Mono<2-ethylhexyl> phthalate< MEHP>	4376-20-9	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	68	24	Mono-n-Butyl phthalate< MNBP>	131-70-4	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	69	1	1,3-Dichlorobenzene	541-73-1	3082	1	11/27/2022	0.1% by weight (w/w)	
Toxic	69	2	o-Dichlorobenzene< 1,2-Dichlorobenzene>	95-50-1	1591	1	11/27/2022	0.1% by weight (w/w)	
Toxic	70	1	1,2,4-Trichlorobenzene	120-82-1	2321	1	11/27/2022	0.1% by weight (w/w)	
Toxic	71	1	2-Ethoxyethanol< Ethylene glycol monoethyl ether>	110-80-5	1171	2	11/27/2022	0.1% by weight (w/w)	
Toxic	71	2	2-Methoxyethanol< Ethylene glycol monomethyl ether>	109-86-4	1188	2	11/27/2022	0.1% by weight (w/w)	
Toxic	72	1	1-Chloro-2,3-epoxypropane	106-89-8	2023	2	11/27/2022	0.1% by weight (w/w)	
Toxic	73	1	Phthalic anhydride	85-44-9	2214	3	11/27/2022	0.1% by weight (w/w)	
Toxic	74	1	Toluene diisocyanate (mixed isomers)	26471-62-5	2078	3	11/27/2022	0.1% by weight (w/w)	
Toxic	75	1	1,2-Dichloroethane< Ethylene dichloride>	107-06-2	1184	4	11/27/2022	0.1% by weight (w/w)	
Toxic	76	1	1,1,2,2-Tetrachloroethane	79-34-5	1702	4	11/27/2022	0.1% by weight (w/w)	
Toxic	77	1	1,2-Dichloroethylene	540-59-0	1150	4	11/27/2022	0.1% by weight (w/w)	
Toxic	77	2	1,1-Dichloroethylene	75-35-4	1303	4	11/27/2022	0.1% by weight (w/w)	
Toxic	78	1	Chloromethane< Methyl chloride>	74-87-3	1063	4	11/27/2022	0.1% by weight (w/w)	
Toxic	79	1	Dichloromethane< Methylenechloride>	75-09-2	1593	4	11/27/2022	0.1% by weight (w/w)	
Toxic	80	1	Dimethyl phthalate< DMPP>	131-11-3	3082	1	11/27/2022	0.1% by weight (w/w)	
Toxic	80	2	Diethyl phthalate< DEPP>	84-74-2	3082	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	81	1	Cumene	98-82-8	1918	4	11/27/2022	0.1% by weight (w/w)	
Toxic	82	1	Cyclohexane	110-82-7	1145	4	11/27/2022	0.1% by weight (w/w)	
Toxic	83	1	Chloroacetic acid	79-11-8	1751	4	11/27/2022	0.1% by weight (w/w)	
Toxic	84	1	Ethyl chloroformate	541-41-3	1182	4	11/27/2022	0.1% by weight (w/w)	
Toxic	85	1	2,4-Dinitrophenol	51-28-5	1320	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	86	1	Dimethyl sulfate	77-78-1	1595	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	87	1	Ethyleneimine	151-56-4	1185	2,3	11/27/2022	0.1% by weight (w/w)	
Toxic	88	1	Ris<2-chloro-1-methylethyl> ether	108-60-1	2490	1	11/27/2022	0.1% by weight (w/w)	
Toxic	89	1	Carbon disulfide	75-15-0	1131	1	11/27/2022	0.1% by weight (w/w)	
Toxic	90	1	Chlorobenzene	108-90-7	1134	1	11/27/2022	0.1% by weight (w/w)	
Toxic	91	1	Decabromodiphenyl ether	1163-19-5	-	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	91	2	Octabromodiphenyl ether	32536-52-0	3152	1	11/27/2022	0.1% by weight (w/w)	
Toxic	91	3	Pentabromodiphenyl ether	32534-81-9	3152	1	11/27/2022	0.1% by weight (w/w)	
Toxic	91	4	2,2',4,4'-tetrabromodiphenyl ether< BDE-47>	40088-47-9	3151	1	11/27/2022	0.1% by weight (w/w)	
Toxic	91	5	2,2',4,4',5,5'-hexabromodiphenyl ether< BDE-153>	68631-49-2	3152	1	11/27/2022	0.1% by weight (w/w)	
Toxic	91	6	2,2',4,4',5,6'-hexabromodiphenyl ether< BDE-154>	207122-15-4	3152	1	11/27/2022	0.1% by weight (w/w)	
Toxic	91	7	2,2',3,3',4,4',5,6'-heptabromodiphenyl ether< BDE-175>	446255-22-7	3152	1	11/27/2022	0.1% by weight (w/w)	
Toxic	91	8	2,2',3,4,4',5,6'-heptabromodiphenyl ether< BDE-183>	207122-16-5	3152	1	11/27/2022	0.1% by weight (w/w)	
Toxic	92	1	Dibenzofuran	132-64-9	3077	1	11/27/2022	0.1% by weight (w/w)	
Toxic	93	1	1,4-Dioxane	123-91-1	1165	1	11/27/2022	0.1% by weight (w/w)	
Toxic	94	1	Dichloronaphthalene	1825-31-6	3077	1	11/27/2022	0.1% by weight (w/w)	
Toxic	94	2	Trichloronaphthalene	1321-65-9	2811	1	11/27/2022	0.1% by weight (w/w)	
Toxic	94	3	Tetrachloronaphthalene	1335-88-2	3077	1	11/27/2022	0.1% by weight (w/w)	
Toxic	94	4	Pentachloronaphthalene	1321-64-8	3077	1	11/27/2022	0.1% by weight (w/w)	
Toxic	94	5	Hexachloronaphthalene	1335-87-1	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	94	6	Heptachloronaphthalene	32241-08-0	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	94	7	Octachloronaphthalene	2234-13-1	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	95	1	Methyl isocyanate	74-88-4	2644	1	11/27/2022	0.1% by weight (w/w)	
Toxic	96	1	8-Propylstearene	57-57-8	2810	1	11/27/2022	0.1% by weight (w/w)	
Toxic	97	1	Pyridine	110-86-1	1282	1	11/27/2022	0.1% by weight (w/w)	
Toxic	98	1	N,N-Dimethyl formamide	68-12-2	2265	2	11/27/2022	0.1% by weight (w/w)	
Toxic	98	2	Formamide	75-12-7	-	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	99	1	Nickel carbonyl	13463-39-3	1259	2	11/27/2022	0.1% by weight (w/w)	
Toxic	100	1	Acrolein	107-02-8	1092	3	11/27/2022	0.1% by weight (w/w)	
Toxic	101	1	Allyl alcohol	107-18-6	1098	3	11/27/2022	0.1% by weight (w/w)	
Toxic	102	1	1,2-Diethoxyhydrazine	122-66-7	2811	1	11/27/2022	0.1% by weight (w/w)	
Toxic	103	1	Hydrogen cyanide	74-90-8	1051	3	11/27/2022	0.1% by weight (w/w)	
Toxic	104	1	Acetaldehyde	75-07-0	1089	4	11/27/2022	0.1% by weight (w/w)	
Toxic	105	1	Acetonitrile	75-05-8	1648	4	11/27/2022	0.1% by weight (w/w)	
Toxic	106	1	Benzyl chloride	100-44-7	1738	4	11/27/2022	0.1% by weight (w/w)	
Toxic	107	1	Butyl acrylate	141-32-2	2348	4	11/27/2022	0.1% by weight (w/w)	
Toxic	108	1	Butyraldehyde	123-72-8	1129	4	11/27/2022	0.1% by weight (w/w)	
Toxic	109	1	Calcium cyanamide	156-62-7	1403	4	11/27/2022	0.1% by weight (w/w)	
Toxic	110	1	Chloroformic Acid	115-28-6	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	111	1	Chloroprene	126-99-8	1991	4	11/27/2022	0.1% by weight (w/w)	
Toxic	112	1	m-Cresol	108-39-4	2076	4	11/27/2022	0.1% by weight (w/w)	
Toxic	113	1	1,3-Dichloropropene	542-75-6	2047	4	11/27/2022	0.1% by weight (w/w)	

Toxicity and chemical substances of concern

344 results (195 listed toxic)

Source: <https://toxicsinfo.epa.gov.tw/English/Chemical>




Toxic and Chemical Substances Bureau
Environmental Protection Administration, Republic of China (Taiwan)

Date of Last Update to List: 11/27/2022

Type	Listed No.	Series No.	Name	Cas No.	UN No.	Toxicity Classify	Date of Inclusion	Limit	notes from REC Silicon
Toxic	114	1	Diethanolamine	111-42-2	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	115	1	Diphenylamine	123-39-4	3082	4	11/27/2022	0.1% by weight (w/w)	
Toxic	116	1	Ethylbenzene	100-41-4	1175	4	11/27/2022	0.1% by weight (w/w)	
Toxic	117	1	Methyl isobutyl ketone	108-10-1	1245	4	11/27/2022	0.1% by weight (w/w)	
Toxic	118	1	4,4'-Methylenedianiline	101-77-9	2651	4	11/27/2022	0.1% by weight (w/w)	
Toxic	119	1	Nitrolic acetic acid	139-13-9	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	120	1	Propane sulfone	1120-71-4	2811	4	11/27/2022	0.1% by weight (w/w)	
Toxic	121	1	Triethylamine	121-44-8	1296	4	11/27/2022	0.1% by weight (w/w)	
Toxic	122	1	α-Chloroacetophenone (w-Chloroacetophenone)	532-27-4	1697	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	123	1	Anthracene	120-12-7	3077	1	11/27/2022	0.1% by weight (w/w)	
Toxic	124	1	Dibromomethane (Methylenebromide)	74-95-3	2664	1	11/27/2022	0.1% by weight (w/w)	
Toxic	125	1	Bromofom (Tribromomethane)	75-25-2	2515	1	11/27/2022	0.1% by weight (w/w)	
Toxic	126	1	Chloroethane (Ethyl chloride)	75-00-3	1037	1	11/27/2022	0.1% by weight (w/w)	
Toxic	128	1	Hexachlorophene (2,2'-dihydroxy-3,3',5',5',6,6'-hexachlorodiphenylmethane)	70-30-4	2875	1	11/27/2022	0.1% by weight (w/w)	
Toxic	128	1	Hexachlorophene (2,2'-dihydroxy-3,3',5',5',6,6'-hexachlorodiphenylmethane)	70-30-4	2875	1	11/27/2022	0.1% by weight (w/w)	
Toxic	129	1	Nitrobenzene	98-95-3	1662	1	11/27/2022	0.1% by weight (w/w)	
Toxic	129	1	Nitrobenzene	98-95-3	1662	1	11/27/2022	0.1% by weight (w/w)	
Toxic	131	1	ethyl sulfate (Diethyl sulfate)	64-67-5	1594	2	11/27/2022	0.1% by weight (w/w)	
Toxic	131	1	ethyl sulfate (Diethyl sulfate)	64-67-5	1594	2	11/27/2022	0.1% by weight (w/w)	
Toxic	132	1	Hexamethylphosphoramide (HMPA)	680-31-9	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	132	1	Hexamethylphosphoramide (HMPA)	680-31-9	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	133	1	N-Nitroso-N-methylurea	684-93-5	2811	2	11/27/2022	0.1% by weight (w/w)	
Toxic	133	1	N-Nitroso-N-methylurea	684-93-5	2811	2	11/27/2022	0.1% by weight (w/w)	
Toxic	134	1	Nitrosodimethylamine (DNMA)	62-75-9	2810	2	11/27/2022	0.1% by weight (w/w)	
Toxic	134	1	Nitrosodimethylamine (DNMA)	62-75-9	2810	2	11/27/2022	0.1% by weight (w/w)	
Toxic	134	2	Diethylamine, N-nitroso- (Nitrosamine, diethyl)	55-18-5	2810	2	11/27/2022	0.1% by weight (w/w)	
Toxic	134	2	Diethylamine, N-nitroso- (Nitrosamine, diethyl)	55-18-5	2810	2	11/27/2022	0.1% by weight (w/w)	
Toxic	135	1	Tris (2,3-dibromopropyl) phosphate	126-72-7	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	135	1	Tris (2,3-dibromopropyl) phosphate	126-72-7	-	2	11/27/2022	0.1% by weight (w/w)	
Toxic	136	1	Vinyl bromide	593-60-2	1085	2	11/27/2022	0.1% by weight (w/w)	
Toxic	136	1	Vinyl bromide	593-60-2	1085	2	11/27/2022	0.1% by weight (w/w)	
Toxic	137	1	4,6-Dinitro-o-cresol	534-52-1	1598	3	11/27/2022	0.1% by weight (w/w)	
Toxic	137	1	4,6-Dinitro-o-cresol	534-52-1	1598	3	11/27/2022	0.1% by weight (w/w)	
Toxic	138	1	Methyl hydrazine	60-34-4	1244	3	11/27/2022	0.1% by weight (w/w)	
Toxic	139	1	Monofluoroacetamide	640-19-7	2811	3	11/27/2022	0.1% by weight (w/w)	
Toxic	140	1	Propargyl alcohol	107-19-7	2929/1986	3	11/27/2022	0.1% by weight (w/w)	
Toxic	141	1	Propylene imine	75-55-8	1921	3	11/27/2022	0.1% by weight (w/w)	
Toxic	142	1	Boron trifluoride	7727637	1008	4	11/27/2022	0.1% by weight (w/w)	
Toxic	143	1	Chloroacetaldehyde<2-butenal>	4170-30-3	1143	4	11/27/2022	0.1% by weight (w/w)	
Toxic	144	1	Thiourea (thiocarbamide)	62-56-6	2811	4	11/27/2022	0.1% by weight (w/w)	
Toxic	145	1	2,4-Toluylenediamine (m-Tolylene-diamine ; toluene-2,4-diamine)	95-80-7	1709	4	11/27/2022	0.1% by weight (w/w)	
Toxic	145	2	Toluylenediamines<mixed isomers> ; <toluene,diamine> ; <mixed isomers>	25376-45-8	1709	4	11/27/2022	0.1% by weight (w/w)	
Toxic	146	1	Vinyl Acetate	108-05-4	1301	4	11/27/2022	0.1% by weight (w/w)	
Toxic	147	1	1,2-Dichloropropane	78-87-5	1279	1	11/27/2022	0.1% by weight (w/w)	
Toxic	148	1	Tributyltin oxide, Bis<tributyltin> oxide	56-35-9	2788	1	11/27/2022	0.1% by weight (w/w)	
Toxic	148	2	Tributyltin hydroxide	76-87-9	2786	1	11/27/2022	0.1% by weight (w/w)	
Toxic	148	3	Tributyltin Acetate	56-36-0	3146	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	4	Tributyltin bromide	1461-23-0	2788	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	5	Tributyltin chloride	1461-22-9	2788	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	6	Tributyltin fluoride	10/4/1983	3146	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	7	Tributyltin hydride	688-73-3	1992	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	8	Tributyltin laurate	3090-36-6	3146	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	9	Tributyltin Maleate	14275-57-1 4027-18-3	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	10	Tri-n-propyldiethyltin	3440-79-7	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	11	Tri-n-propyldibutyltin	92154-74-0	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	12	Tri-n-propyl-n-butyltin	3634-62-6	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	13	Tri-n-propyltin iodide	7342-45-2	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	14	Triphenylbenzyltin	2847-58-7	3146	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	15	Triphenylmethyltin	1089-59-4	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	16	Triphenyl-p-tolyltin	15807-28-0	3146	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	17	Triphenyltin bromide	962-89-0	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	18	Triphenyltin fluoride	379-52-2	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	19	Triphenyltin iodide	894-09-7	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	20	Triphenyltin Acetate	900-95-8	3146	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	21	Triphenyltin chloride	639-58-7	3146	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	22	Triphenyl-q-naphthyltin	-	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	23	Tripropyltin bromide	2767-61-5	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	24	Tripropyltin chloride	2279-76-7	2788	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	25	Tripropyltin fluoride	-	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	26	Triptyl tin bromide	-	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	27	Triptyl tin chloride	353747-42-9	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	28	Triptyl tin fluoride	353747-43-0	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	29	Triptyl tin hydroxide	228262-76-8	3146	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	30	Triptyl tin iodide	353747-44-1	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	31	Trisphenylstannyl-methane	-	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	32	Triptyl tin bromide	353747-45-2	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	33	Triptyl tin chloride	353747-46-3	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	34	Triptyl tin fluoride	353747-47-4	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	148	35	Triptyl tin iodide	353747-48-5	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	149	1	Hexachloroethane	67-72-1	1	11/27/2022	0.1% by weight (w/w)		
Toxic	150	1	Hexachloro-1,3-butadiene	87-68-3	2279	1	11/27/2022	0.1% by weight (w/w)	
Toxic	151	1	Beryllium	7440-41-7	1567	2	11/27/2022	0.1% by weight (w/w)	
Toxic	152	1	p-Chloro-o-toluidine	95-69-2	2239	2	11/27/2022	0.1% by weight (w/w)	
Toxic	153	1	Dimethylcarbamyl Chloride	79-44-7	2262	2	11/27/2022	0.1% by weight (w/w)	
Toxic	154	1	Styrene oxide	96-09-3	2810	2	11/27/2022	0.1% by weight (w/w)	
Toxic	155	1	1,2,3-Trichloropropane	96-18-4	2810	2	11/27/2022	0.1% by weight (w/w)	
Toxic	156	1	Fluorine	7782-41-4	1045	3	11/27/2022	0.1% by weight (w/w)	
Toxic	157	1	Phosphine	7803-51-2	2199	3	11/27/2022	0.1% by weight (w/w)	
Toxic	158	1	Phosphorus Trichloride	12/2/7719	1809	3	11/27/2022	0.1% by weight (w/w)	
Toxic	159	1	Thiosemicarbazide 1-amino-2-thiourea	79-19-6	2811	3	11/27/2022	0.1% by weight (w/w)	
Toxic	160	1	Methyl tert-butyl ether	1634-04-4	2398	4	11/27/2022	0.1% by weight (w/w)	
Toxic	161	1	2,4-Dichlorophenol	120-83-2	2020	4	11/27/2022	0.1% by weight (w/w)	
Toxic	162	1	Bromodichloromethane	75-27-4	2810	4	11/27/2022	0.1% by weight (w/w)	
Toxic	163	1	Dicyclopentadiene	77-73-6	2048	4	11/27/2022	0.1% by weight (w/w)	
Toxic	164	1	Hydrazine	302-01-2	2029	4	11/27/2022	0.1% by weight (w/w)	
Toxic	165	1	Nonyl phenol	25154-52-3 84852-15-3	3145	1	11/27/2022	0.1% by weight (w/w)	
Toxic	165	2	Nonylphenol polyethylene glycol ether	9016-45-9 26027-38-3	3082	1	11/27/2022	0.1% by weight (w/w)	
Toxic	166	1	4,4-isopropylidene diphenol<Bisphenol A>	80-05-7	3077	4	11/27/2022	0.1% by weight (w/w)	
Toxic	167	1	Mirex	2385-85-5	2761	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	168	1	Chloroform	143-50-0	2761	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	169	1	Perfluorooctane sulfonic acid (PFOS)	1763-23-1	3077	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	169	2	Lithium perfluorooctane sulfonate	29457-72-5	-	1,2	11/27/2022	0.1% by weight (w/w)	
Toxic	169	3	Perfluorooctane sulfonate fluoride	307-35-7	3265	1	11/27/2022	0.1% by weight (w/w)	
Toxic	169	4	Perfluorooctanoic acid (PFOA)	335-67-1	3261	1	11/27/2022	0.1% by weight (w/w)	
Toxic	170	1	Pentachlorobenzene	608-93-5	3077	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	171	1	Hexabromobiphenyl	36355-01-8	3152	1	11/27/2022	0.1% by weight (w/w)	
Toxic	172	1	Endosulfan <Technical endosulfan>	115-29-7	2761	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	172	2	Alpha <α> endosulfan	959-98-8	2761	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	172	3	Beta <β> endosulfan	35213-65-9	2761	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	172	4	Endosulfan sulfate	1031-07-8	2761	1,3	11/27/2022	0.1% by weight (w/w)	
Toxic	173	1	Tris<2-chloroethyl> phosphate<TCEP>	115-96-8	2810	2	11/27/2022	0.1% by weight (w/w)	
Toxic	174	1	Hexabromocyclododecane	3194-55-6 25637-99-4	3077	1	11/27/2022	0.1% by weight (w/w)	

Toxicity and chemical substances of concern

344 results (195 listed toxic)
Source: <https://toxicsubs.epa.gov.tw/English/Chemical>
 Toxic and Chemical Substances Bureau
Environmental Protection Administration
Executive Yuan, R.O.C. (Taiwan)

Type	Listed No.	Series No.	Name	Cas No.	UN No.	Toxicity Classify	Date of Inclusion	Limit	notes from REC Silicon
Toxic	174	2	alpha-hexabromocyclododecane	134237-50-6	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	174	3	beta-hexabromocyclododecane	134237-51-7	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	174	4	gamma-hexabromocyclododecane	134237-52-8	-	1	11/27/2022	0.1% by weight (w/w)	
Toxic	175	1	Malachite green	569-64-2	2811	4	11/27/2022	0.1% by weight (w/w)	
Toxic	176	1	Maleic acid	110-16-7	2215	4	11/27/2022	0.1% by weight (w/w)	
Toxic	176	2	Maleic anhydride	108-31-6	2215	4	11/27/2022	0.1% by weight (w/w)	
Toxic	177	1	(4-Ethoxyphenyl) urea, Dulcin	150-69-6	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	178	1	Potassium bromate	1/2/7758	1484	4	11/27/2022	0.1% by weight (w/w)	
Toxic	179	1	Dimethyl fumarate (DMF)	624-49-7	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	180	1	Benzyl violet 4B	1694-09-3	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	181	1	Metanil yellow	587-98-4	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	182	1	Rhodamine B	81-88-9	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	183	1	Butter yellow	60-11-7	2811	4	11/27/2022	0.1% by weight (w/w)	
Toxic	184	1	Sodium hydroxymethanesulfinate	6035-47-8 · 149-44-0	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	185	1	Melamine	108-78-1	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	186	1	Coumarin	91-64-5	2811	4	11/27/2022	0.1% by weight (w/w)	
Toxic	187	1	Sudan 1	842-07-9	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	187	2	Sudan 2	3118-97-6	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	187	3	Sudan 3	-	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	187	4	Sudan 4	85-83-6	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	187	5	Sudan Red G	1229-55-6	3143	4	11/27/2022	0.1% by weight (w/w)	
Toxic	187	6	Sudan Orange G	2051-85-6	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	187	7	Sudan Black B	4197-25-5	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	187	8	Sudan Red 7B	6368-72-5	3077	4	11/27/2022	0.1% by weight (w/w)	
Toxic	188	1	Diethyl yellow/Solvent yellow 56	2481-94-9	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	189	1	Basic orange 2	532-82-1	3077	4	11/27/2022	0.1% by weight (w/w)	
Toxic	190	1	Auramine	2465-27-2	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	191	1	Red No. 2	915-67-3	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	192	1	Asprobine	3567-69-9	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	193	1	Orange 2	633-96-5	-	4	11/27/2022	0.1% by weight (w/w)	
Toxic	194	1	Short-chain chlorinated paraffins (SCCPs)	85535-84-8	3082	1	11/27/2022	0.1% by weight (w/w)	
Toxic	195	1	DICOFOL	115-32-2 · 10606-46-9	3077	1.3	11/27/2022	0.1% by weight (w/w)	

Agents in the list of World Health Organization International Agency for Research on Cancer (IARC) Group 1, 2A, 2B, 3, or 4.

Source: <https://monographs.iarc.who.int/list-of-classifications>

Date of Last Update to

List: Last updated: 2022-09-07 10:34am (CEST)

CAS No.	Agent	Group	Volume	Year	Additional information	Toxicity Classify	Limit	notes from REC Silicon
	Aloe vera, whole leaf extract	2B		108	2016		0.1% by weight (w/w)	
	Clonorchis sinensis (infection with)		1 61, 100B		2012		0.1% by weight (w/w)	
	Fusarium graminearum, F. culmorum, and F. crookwellense, toxins derived from (zearealenone, deoxynivalenol, nivalenol, and fusarenone X)		3 Sup 7, 56		1993		0.1% by weight (w/w)	
	Fusarium sporotrichioides, toxins derived from (T-2 toxin)	3		56	1993	1,2	0.1% by weight (w/w)	
	Helicobacter pylori (infection with)	1 61, 100B			2012	1,3	0.1% by weight (w/w)	
	Microcystis extracts	3		94	2010	2	0.1% by weight (w/w)	
	Opisthorchis felineus (infection with)	3		61	1994	1,3	0.1% by weight (w/w)	
	Opisthorchis viverrini (infection with)	1 61, 100B			2012	1,3	0.1% by weight (w/w)	
	Schistosoma haematobium (infection with)	1 61, 100B			2012	1	0.1% by weight (w/w)	
	Schistosoma japonicum (infection with)	2B		61	1994	1,3	0.1% by weight (w/w)	
	Schistosoma mansoni (infection with)	3		61	1994	1,3	0.1% by weight (w/w)	
	Acheson process, occupational exposure associated with	1		111	2017	3	0.1% by weight (w/w)	
	Acid mists, strong inorganic	1 54, 100F			2012	1	0.1% by weight (w/w)	
	Acrylic fibres	3 19, Sup 7			1987	1,3	0.1% by weight (w/w)	
	Acrylonitrile-butadiene-styrene copolymers	3 19, Sup 7			1987	1,3	0.1% by weight (w/w)	
	Alcoholic beverages	1 44, 96, 100E			2012	1,3	0.1% by weight (w/w)	
	Alpha particles (see Radionuclides)					1,3	0.1% by weight (w/w)	
	Aluminium production	1 34, Sup 7, 92, 100F			2012	1,2,3	0.1% by weight (w/w)	
	Anaesthetics, volatile	3 11, Sup 7			1987	1,3	0.1% by weight (w/w)	
	Androgenic (anabolic) steroids	2A			1987	1,3	0.1% by weight (w/w)	
	Areca nut	1 85, 100E			2012	2	0.1% by weight (w/w)	
	Aroclor	2B		128	2021 online	1,3	0.1% by weight (w/w)	
	Art glass, glass containers and pressed ware (manufacture of)	2A		58	1993	1,3	0.1% by weight (w/w)	
	Auramine production	1 Sup 7, 99, 100F			2012	1	0.1% by weight (w/w)	
	BK polyomavirus (BKV)	2B		104	2014	1	0.1% by weight (w/w)	
	Benzidine, dyes metabolized to	1 99, 100F			2012	1	0.1% by weight (w/w)	NB Overall evaluation upgraded to Group 1 based on mechanistic and other relevant data
	Beta particles (see Radionuclides)					2	0.1% by weight (w/w)	
	Betel quid with tobacco	1 Sup 7, 85, 100E			2012	1	0.1% by weight (w/w)	
	Betel quid without tobacco	1 Sup 7, 85, 100E			2012	2,3	0.1% by weight (w/w)	
	Biomass fuel (primarily wood), indoor emissions from household combustion of	2A		95	2010	1,3	0.1% by weight (w/w)	
	Bisulfites	3		54	1992	3	0.1% by weight (w/w)	
	Bitumens, occupational exposure to hard bitumens and their emissions during mastic asphalt work	2B		103	2013	3	0.1% by weight (w/w)	
	Boot and shoe manufacture and repair (see Leather dust, Benzene)	25, Sup 7			1987	3	0.1% by weight (w/w)	
	Bracken fern	2B 40, Sup 7			1987	2,3	0.1% by weight (w/w)	
	Calcium carbide production	3		92	2010	2,3	0.1% by weight (w/w)	
	Carbon electrode manufacture	2A		92	2010	1,2	0.1% by weight (w/w)	
	Carpentry and joinery	2B 25, Sup 7			1987	1,2	0.1% by weight (w/w)	
	Ceramic implants	3		74	1999	2	0.1% by weight (w/w)	
	Chimney sweeping (see Soot)			92	2010	2	0.1% by weight (w/w)	
	Chlorinated drinking-water	3		52	1991	2	0.1% by weight (w/w)	
	Chlorinated paraffins of average carbon chain length C12 and average degree of chlorination approximately 60%	2B		48	1990	2	0.1% by weight (w/w)	
	Chlorophenols (see Polychlorophenols)					1,2	0.1% by weight (w/w)	
	Chlorophenoxy herbicides	2B	41, Sup 7		1987	1,2	0.1% by weight (w/w)	
	Coal dust	3		68	1997	1,2	0.1% by weight (w/w)	
	Coal gasification	1 Sup 7, 92, 100F			2012	1,2	0.1% by weight (w/w)	
	Coal, indoor emissions from household combustion of	1 95, 100E			2012	1,2	0.1% by weight (w/w)	
	Cobalt and cobalt compounds, see Soluble cobalt(II) salts, Cobalt metal (without tungsten carbide or other metal alloys), Cobalt(II) oxide, Cobalt(II,III) oxide, Cobalt(II) sulfide, and Other cobalt(II) compounds (not including Soluble cobalt(II) salts, Cobalt(II) oxide, Cobalt(II,III) oxide, or Cobalt(II) sulfide)					1,2	0.1% by weight (w/w)	
	Cobalt metal without tungsten carbide, see Cobalt metal (without tungsten carbide or other metal alloys)					2	0.1% by weight (w/w)	
	Cobalt sulfate and other soluble cobalt(II) salts, see Soluble cobalt(II) salts					2	0.1% by weight (w/w)	
	Coffee, drinking	3 51, 116			2018 online	2	0.1% by weight (w/w)	NB There is "evidence suggesting lack of carcinogenicity" in humans of coffee drinking for cancers of the pancreas, liver, female breast, uterine endometrium, and prostate. Inverse associations with coffee drinking have been observed with cancers of the liver and uterine endometrium.
	Coke production	1 Sup 7, 92, 100F			2012	2	0.1% by weight (w/w)	
	Continuous glass filament (see Glass filament)	3		74	1999	2	0.1% by weight (w/w)	
	Dental materials	3				2	0.1% by weight (w/w)	
	Diesel engine exhaust (see Engine exhaust, diesel)					2	0.1% by weight (w/w)	
	Diesel fuel, marine	2B		45	1989	2	0.1% by weight (w/w)	NB Overall evaluation upgraded to Group 2B with supporting evidence from other relevant data
	Diesel fuels, distillate (light)	3		45	1989	2	0.1% by weight (w/w)	
	Dry cleaning (occupational exposures in)	2B		63	1995	2	0.1% by weight (w/w)	
	Dyes metabolized to benzidine (see Benzidine, dyes metabolized to)					2	0.1% by weight (w/w)	
	Electric fields, extremely low-frequency	3		80	2002	2	0.1% by weight (w/w)	
	Electric fields, static	3		80	2002	2	0.1% by weight (w/w)	
	Engine exhaust, diesel	1 46, 105			2014	2	0.1% by weight (w/w)	
	Engine exhaust, gasoline	2B 46, 105			2014	2	0.1% by weight (w/w)	
	Epstein-Barr virus	1 70, 100B			2012	2	0.1% by weight (w/w)	
	Estrogen therapy, postmenopausal	1 72, 100A			2012	2,3	0.1% by weight (w/w)	
	Estrogen-progestogen menopausal therapy (combined)	1 72, 91, 100A			2012	2,3	0.1% by weight (w/w)	
	Estrogen-progestogen oral contraceptives (combined)	1 72, 91, 100A			2012	2,3	0.1% by weight (w/w)	NB There is also convincing evidence in humans that these agents confer a protective effect against cancer in the endometrium and ovary
	Firefighter (occupational exposure as a)	1 98, 132			in prep.	2,3	0.1% by weight (w/w)	
	Fission products, including strontium-90	1 100D			2012	2,3	0.1% by weight (w/w)	
	Flat-glass and specialty glass (manufacture of)	3		58	1993	2,3	0.1% by weight (w/w)	
	Fluorescent lighting	3		55	1992	2,3	0.1% by weight (w/w)	
	Fluoro-edenite fibrous amphibole	1		111	2017	2,3	0.1% by weight (w/w)	
	Foreign bodies (see Ceramic implants, Dental materials, Implanted foreign bodies, Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric implants, Silicone breast implants)					2,3	0.1% by weight (w/w)	
	Frying, emissions from high-temperature	2A		95	2010	2,3	0.1% by weight (w/w)	
	Fuel oils, distillate (light)	3		45	1989	2,3	0.1% by weight (w/w)	
	Fuel oils, residual (heavy)	2B		45	1989	2,3	0.1% by weight (w/w)	
	Furniture and cabinet making (see Wood dust)	25, Sup 7			1987	3	0.1% by weight (w/w)	
	Gamma-Radiation (see X- and Gamma-Radiation)					1	0.1% by weight (w/w)	
	Gasoline	2B		45	1989	1	0.1% by weight (w/w)	NB Overall evaluation upgraded to Group 2B with supporting evidence from other relevant data
	Gasoline engine exhaust (see Engine exhaust, gasoline)					1	0.1% by weight (w/w)	
	Glass filament, continuous	3 43, 81			2002	1	0.1% by weight (w/w)	
	Goldenseal root powder	2B		108	2016	1	0.1% by weight (w/w)	
	Haematite mining (underground)	1 1, Sup 7, 100D			2012	1,2	0.1% by weight (w/w)	
	Hair colouring products (personal use of)	3 57, 99			2010	1	0.1% by weight (w/w)	
	Hairdresser or barber (occupational exposure as a)	2A		57, 99	2010	3	0.1% by weight (w/w)	
	Hepatitis B virus (chronic infection with)	1 59, 100B			2012	3	0.1% by weight (w/w)	

Agents in the list of World Health Organization International Agency for Research on Cancer (IARC) Group 1, 2A, 2B, 3, or 4.

Source: <https://monographs.iarc.who.int/list-of-classifications>

Date of Last Update to

List: Last updated: 2022-09-07 10:34am (CEST)

CAS No.	Agent	Group	Volume	Year	Additional information	Toxicity Classify	Limit	notes from REC Silicon
	Hepatitis C virus (chronic infection with)		1 59, 100B	2012		1,3	0.1% by weight (w/w)	
	Hepatitis D virus	3		59	1994	3	0.1% by weight (w/w)	
	Hexachlorocyclohexanes	2B	20, Sup 7		1987	3	0.1% by weight (w/w)	
	High-temperature frying (see Frying)					2,3	0.1% by weight (w/w)	
	Household combustion of biomass fuel (see Biomass fuel, indoor emissions from household combustion of)					1,2	0.1% by weight (w/w)	
	Household combustion of coal (see Coal, indoor emissions from household combustion)					1,2	0.1% by weight (w/w)	
	Human T-cell lymphotropic virus type I	1	67, 100B		2012	1	0.1% by weight (w/w)	
	Human T-cell lymphotropic virus type II			67	1996	1	0.1% by weight (w/w)	
	Human herpesvirus type 4 (see Epstein-Barr virus)					2	0.1% by weight (w/w)	
	Human herpesvirus type 8 (see Kaposi sarcoma herpesvirus)					2	0.1% by weight (w/w)	
	Human immunodeficiency virus type 1 (infection with)	1	67, 100B		2012	2	0.1% by weight (w/w)	
	Human immunodeficiency virus type 2 (infection with)	2B		67	1996	2	0.1% by weight (w/w)	
	Human papillomavirus (HPV) genus beta (except types 5 and 8) and genus gamma	3	90, 100B		2012	2	0.1% by weight (w/w)	
	Human papillomavirus (HPV) type 16	1	64, 90, 100B		2012	2	0.1% by weight (w/w)	NB The HPV types that have been classified as carcinogenic to humans can differ by an order of magnitude in risk for cervical cancer
	Human papillomavirus (HPV) type 18	1	64, 90, 100B		2012	2	0.1% by weight (w/w)	NB The HPV types that have been classified as carcinogenic to humans can differ by an order of magnitude in risk for cervical cancer
	Human papillomavirus (HPV) type 33	1	64, 90, 100B		2012	2	0.1% by weight (w/w)	NB The HPV types that have been classified as carcinogenic to humans can differ by an order of magnitude in risk for cervical cancer
	Human papillomavirus (HPV) type 68	2A	100B		2012	2	0.1% by weight (w/w)	
	Human papillomavirus (HPV) types 31, 35, 39, 45, 51, 52, 56, 58, 59	1	64, 90, 100B		2012	2	0.1% by weight (w/w)	NB The HPV types that have been classified as carcinogenic to humans can differ by an order of magnitude in risk for cervical cancer
	Human papillomavirus (HPV) types 26, 53, 66, 67, 70, 73, 82	2B	100B		2012	2	0.1% by weight (w/w)	NB Classified by phylogenetic analogy to the HPV genus alpha types classified in Group 1
	Human papillomavirus (HPV) types 30, 34, 69, 85, 97	2B	100B		2012	2	0.1% by weight (w/w)	
	Human papillomavirus (HPV) types 5 and 8 (in patients with epidermodysplasia verruciformis)	2B	100B		2012	2	0.1% by weight (w/w)	
	Human papillomavirus (HPV) types 6 and 11	3	90, 100B		2012	2	0.1% by weight (w/w)	
	Hypochlorite salts	3		52	1991	2	0.1% by weight (w/w)	
	Implanted foreign bodies of metallic chromium or titanium and of cobalt-based, chromium-based, and titanium-based alloys, stainless steel and depleted uranium	3		74	1999	2	0.1% by weight (w/w)	
	Implanted foreign bodies of metallic cobalt, metallic nickel and an alloy powder containing 66-67% nickel, 13-16% chromium, and 7% iron	2B		74	1999	2	0.1% by weight (w/w)	
	Insulation glass wool	3	43, 81		2002	2	0.1% by weight (w/w)	
	Involuntary smoking (see Tobacco smoke, second-hand)					2	0.1% by weight (w/w)	
	Ionizing radiation (all types)	1	100D		2012	2	0.1% by weight (w/w)	
	Iron and steel founding (occupational exposure during)	1	34, Sup 7, 100F		2012	2	0.1% by weight (w/w)	
	Isopropyl alcohol manufacture using strong acids	1	Sup 7, 100F		2012	2	0.1% by weight (w/w)	
	Isopropyl oils	3	15, Sup 7, 71		1999	2	0.1% by weight (w/w)	
	JC polyomavirus (JCV)	2B		104	2014	2	0.1% by weight (w/w)	
	Jet fuel	3		45	1989	2	0.1% by weight (w/w)	
	Kaposi sarcoma herpesvirus	1	70, 100B		2012	2	0.1% by weight (w/w)	
	Lead compounds, inorganic	2A	Sup 7, 87		2006	2	0.1% by weight (w/w)	
	Lead compounds, organic	3	23, Sup 7, 87		2006	1,2	0.1% by weight (w/w)	NB Organic lead compounds are metabolized at least in part, to ionic lead both in humans and animals. To the extent that ionic lead, generated from organic lead, is present in the body, it will be expected to exert the toxicities associated with inorganic lead
	Leather dust	1	100C		2012	1,2	0.1% by weight (w/w)	
	Leather goods manufacture	3	25, Sup 7		1987	1,2,3	0.1% by weight (w/w)	
	Leather tanning and processing	3	25, Sup 7		1987	1	0.1% by weight (w/w)	
	Lumber and sawmill industries (including logging)	3	25, Sup 7		1987	2	0.1% by weight (w/w)	
	MOPP and other combined chemotherapy including alkylating agents	1	Sup 7, 100A		2012	1,2	0.1% by weight (w/w)	
	Madder root (Rubia tinctorum)	3		82	2002	1,2	0.1% by weight (w/w)	
	Magenta production	1	Sup 7, 57, 99, 100F		2012	2	0.1% by weight (w/w)	
	Magnetic fields, extremely low-frequency	2B		80	2002	1,2	0.1% by weight (w/w)	
	Magnetic fields, static	3		80	2002	1,2	0.1% by weight (w/w)	
	Malaria (caused by infection with Plasmodium falciparum in holoendemic areas)	2A		104	2014	2	0.1% by weight (w/w)	
	Mate, hot (see Very hot beverages)					2,3	0.1% by weight (w/w)	
	Mate, not very hot (drinking)	3	51, 116		2018 online	1,2	0.1% by weight (w/w)	
	Merkel cell polyomavirus (MCV)	2A		104	2014	1,2	0.1% by weight (w/w)	
	Metabisulfites	3		54	1992	1,2	0.1% by weight (w/w)	
	Metallic implants prepared as thin smooth films	2B		74	1999	1	0.1% by weight (w/w)	
	Methylmercury compounds	2B		58	1993	1	0.1% by weight (w/w)	NB Evaluated as a group
	Mineral oils, highly-refined	3	33, Sup 7		1987	1,2	0.1% by weight (w/w)	
	Mineral oils, untreated or mildly treated	1	33, Sup 7, 100F		2012	1,2	0.1% by weight (w/w)	
	Modacrylic fibres	3	19, Sup 7		1987	1	0.1% by weight (w/w)	
	Neutron radiation	1	75, 100D		2012	1	0.1% by weight (w/w)	NB Overall evaluation upgraded to Group 1 with supporting evidence from other relevant data
	Nickel compounds	1	Sup 7, 49, 100C		2012	1	0.1% by weight (w/w)	
	Nickel refining (see Nickel compounds)			11	1976	1	0.1% by weight (w/w)	
	Night shift work	2A	98, 124		2020 online	1	0.1% by weight (w/w)	NB Volume 98 evaluated shiftwork that involves circadian disruption
	Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation	2A		94	2010	1	0.1% by weight (w/w)	
	Non-arsenical insecticides (occupational exposures in spraying and application of)	2A		53	1991	4	0.1% by weight (w/w)	
	Oestrogen (see Estrogen)					4	0.1% by weight (w/w)	
	Opium consumption	1		126	2021 online	4	0.1% by weight (w/w)	
	Oral contraceptives, combined estrogen-progestogen (see Estrogen-progestogen oral contraceptives)					4	0.1% by weight (w/w)	
	Organic polymeric materials	3		74	1999	4	0.1% by weight (w/w)	
	Orthopaedic implants of complex composition and cardiac pacemakers	3		74	1999	4	0.1% by weight (w/w)	
	Other cobalt(II) compounds (not including Soluble cobalt(II) salts, Cobalt(II) oxide, Cobalt(II,III) oxide, and Cobalt(II) sulfide)	3	52, 86, 131		In prep.	1,2	0.1% by weight (w/w)	
	Outdoor air pollution	1		109	2016	1,2	0.1% by weight (w/w)	
	Outdoor air pollution, particulate matter in	1		109	2016	4	0.1% by weight (w/w)	
	Paint manufacture (occupational exposure in)	3		47	1989	4	0.1% by weight (w/w)	
	Painter (occupational exposure as a)	1	47, 98, 100F		2012	4	0.1% by weight (w/w)	
	Particulate matter in outdoor air pollution (see Outdoor air pollution, particulate matter in)					4	0.1% by weight (w/w)	
	Paving and roofing with coal-tar pitch (see Coal-tar pitch)		35, Sup 7, 92, 100F		2010	1	0.1% by weight (w/w)	
	Pentavalent antimony	3		131	In prep.	1	0.1% by weight (w/w)	
	Petroleum refining (occupational exposures in)	2A		45	1989	1	0.1% by weight (w/w)	
	Petroleum solvents	3		47	1989	2	0.1% by weight (w/w)	
	Phenacetin, analgesic mixtures containing	1	Sup 7, 100A		2012	2	0.1% by weight (w/w)	

Agents in the list of World Health Organization International Agency for Research on Cancer (IARC) Group 1, 2A, 2B, 3, or 4.

Source: <https://monographs.iarc.who.int/list-of-classifications>

Date of Last Update to

List: Last updated: 2022-09-07 10:34am (CEST)

CAS No.	Agent	Group	Volume	Year	Additional information	Toxicity Classify	Limit	notes from REC Silicon
	Pickled vegetables (traditional Asian)	2B		56	1993	2	0.1% by weight (w/w)	
	Polychlorinated biphenyls, dioxin-like, with a Toxicity Equivalency Factor (TEF) according to WHO (PCBs 77, 81, 105, 114, 118, 123, 126, 156, 157, 167, 169, 189)	1		107	2016	3	0.1% by weight (w/w)	NB Overall evaluation upgraded to Group 1 with strong supporting evidence from other relevant data
	Polychlorinated dibenzo-para-dioxins (other than 2,3,7,8-tetrachlorodibenzo-para-dioxin)	3		69	1997	3	0.1% by weight (w/w)	
	Polychlorinated dibenzofurans (see 2,3,4,7,8-Pentachlorodibenzofuran)	3		69	1997	4	0.1% by weight (w/w)	
	Polychlorophenols and their sodium salts (mixed exposures) (see Pentachlorophenol; 2,4,6-Trichlorophenol)	2B	53, 71		1999	4	0.1% by weight (w/w)	
	Polymeric implant prepared as thin smooth films (with the exception of poly-glycolic acid)	2B		74	1999	4	0.1% by weight (w/w)	
	Printing inks	3		65	1996	4	0.1% by weight (w/w)	
	Printing processes (occupational exposures in)	2B		65	1996	4	0.1% by weight (w/w)	
	Processed meat (consumption of)	1		114	2018	4	0.1% by weight (w/w)	
	Proflavine salts	3	24, Sup 7		1987	1	0.1% by weight (w/w)	
	Progestins	2B	Sup 7		1987	1,2	0.1% by weight (w/w)	
	Progestogen-only contraceptives	2B		72	1999	4	0.1% by weight (w/w)	
	Pulp and paper manufacture	3	25, Sup 7		1987	4	0.1% by weight (w/w)	
	Radiofrequency electromagnetic fields	2B		102	2013	4	0.1% by weight (w/w)	
	Radiiodines, including iodine-131	1	78, 100D		2012	4	0.1% by weight (w/w)	
	Radionuclides, alpha-particle-emitting, internally deposited	1	78, 100D		2012	1,3	0.1% by weight (w/w)	NB Specific radionuclides for which there is sufficient evidence in humans are also listed individually as Group 1 agents
	Radionuclides, beta-particle-emitting, internally deposited	1	78, 100D		2012	2,3	0.1% by weight (w/w)	NB Specific radionuclides for which there is sufficient evidence in humans are also listed individually as Group 1 agents
	Red meat (consumption of)	2A		114	2018	2,3	0.1% by weight (w/w)	
	Refractory ceramic fibres	2B	43, 81		2002	1	0.1% by weight (w/w)	
	Rock (stone) wool	3	43, 81		2002	1	0.1% by weight (w/w)	
	Rubber manufacturing industry	1	28, Sup 7, 100F		2012	1	0.1% by weight (w/w)	
	SV40 polyomavirus	3		104	2014	1,2	0.1% by weight (w/w)	
	Salted fish, Chinese-style	1	56, 100E		2012	1	0.1% by weight (w/w)	
	Silicone breast implants	3		74	1999	1	0.1% by weight (w/w)	
	Slag wool	3	43, 81		2002	1	0.1% by weight (w/w)	
	Solar radiation (see Ultraviolet radiation (wavelengths 100–400 nm, encompassing UVA, UVB, and UVC); Ultraviolet radiation from welding; and Ultraviolet-emitting tanning devices)	1	55, 100D		2012	1	0.1% by weight (w/w)	
	Soluble cobalt(II) salts	2A	52, 86, 131		In prep.	1	0.1% by weight (w/w)	
	Soot (as found in occupational exposure of chimney sweeps)	1	35, Sup 7, 92, 100F		2012	1	0.1% by weight (w/w)	
	Special-purpose fibres such as E-glass and '475' glass fibres	2B		81	2002	1	0.1% by weight (w/w)	
	Sulfites	3		54	1992	1	0.1% by weight (w/w)	
	Sunlamps and sunbeds (see Ultraviolet-emitting tanning devices)					1	0.1% by weight (w/w)	
	Surgical implants (see Ceramic implants, Dental materials, Implanted foreign bodies, Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric implants, Silicone breast implants)					1	0.1% by weight (w/w)	
	Tea	3		51	1991	1	0.1% by weight (w/w)	
	Tetrakis(hydroxymethyl)phosphonium salts	3	48, 71		1999	1	0.1% by weight (w/w)	
	Textile manufacturing industry (work in)	2B		48	1990	1	0.1% by weight (w/w)	
	Tobacco smoke, second-hand	1	83, 100E		2012	1	0.1% by weight (w/w)	
	Tobacco smoking	1	83, 100E		2012	1	0.1% by weight (w/w)	
	Tobacco, smokeless	1	Sup 7, 89, 100E		2012	1	0.1% by weight (w/w)	
	Toxins derived from certain Fusarium species (see Fusarium)					1	0.1% by weight (w/w)	
	Trivalent antimony	2A	47, 131		In prep.	1	0.1% by weight (w/w)	
	Ultraviolet radiation from welding (see Ultraviolet radiation (wavelengths 100–400 nm, encompassing UVA, UVB, and UVC); Ultraviolet-emitting tanning devices; and Solar radiation)	1	100D*, 118**		2018	1	0.1% by weight (w/w)	*Volume 100D concluded that there is sufficient evidence for ocular melanoma in welders; **Volume 118 concluded that ultraviolet emissions from welding are carcinogenic to humans (Group 1; there is sufficient evidence in humans for the carcinogenicity of ultraviolet radiation from welding)
	Ultraviolet radiation (wavelengths 100–400 nm, encompassing UVA, UVB, and UVC) (see Ultraviolet radiation from welding; Ultraviolet-emitting tanning devices; and Solar radiation)	1	55, 100D		2012	2	0.1% by weight (w/w)	NB Overall evaluation upgraded to Group 1 based on mechanistic and other relevant data
	Ultraviolet-emitting tanning devices (see Ultraviolet radiation (wavelengths 100–400 nm, encompassing UVA, UVB, and UVC); Ultraviolet radiation from welding; and Solar radiation)	1	100D		2012	1,2	0.1% by weight (w/w)	
	Urethane (see Ethyl carbamate)					2	0.1% by weight (w/w)	
	Very hot beverages at above 65 °C (drinking)	2A		116	2018 online	3	0.1% by weight (w/w)	
	Weapons-grade tungsten (with nickel and cobalt) alloy	2B		131	In prep.	3	0.1% by weight (w/w)	
	Welding fumes		149, 118		2018 online	3	0.1% by weight (w/w)	
	Wood dust	1	62, 100C		2012	3	0.1% by weight (w/w)	
	Wood smoke (see Biomass fuel, indoor emissions from household combustion)					4	0.1% by weight (w/w)	
	X- and Gamma-Radiation	1	75, 100D		2012	4	0.1% by weight (w/w)	
100-00-5	4-Chloronitrobenzene	2B	65, 123		2020 online	4	0.1% by weight (w/w)	
100-17-4	para-Nitroanisole	2B		123	2020 online	4	0.1% by weight (w/w)	
100-40-3	4-Vinylcyclohexene	2B	Sup 7, 60		1994	4	0.1% by weight (w/w)	
100-41-4	Ethylbenzene	2B		77	2000	4	0.1% by weight (w/w)	
100-42-5	Styrene	2A	60, 82, 121		2019	4	0.1% by weight (w/w)	
100-75-4	N-Nitrosopiperidine	2B	17, Sup 7		1987	4	0.1% by weight (w/w)	
10043-66-0	Iodine-131 (see Radiiodines)					4	0.1% by weight (w/w)	
10043-92-2	Radon-222 and its decay products	1	43, 78, 100D		2012	4	0.1% by weight (w/w)	
10048-13-2	Sterigmatocystin	2B	10, Sup 7		1987	4	0.1% by weight (w/w)	
10048-32-5	Parasorbic acid	3	10, Sup 7		1987	4	0.1% by weight (w/w)	
10098-97-2	Strontium-90 (see Fission products)					4	0.1% by weight (w/w)	
101-14-4	4,4'-Methylenbis(2-chloroaniline) (MOCA)	1	Sup 7, 57, 99, 100F		2012	4	0.1% by weight (w/w)	NB Overall evaluation upgraded to Group 1 based on mechanistic and other relevant data
101-21-3	Chloroprotham	3	12, Sup 7		1987	4	0.1% by weight (w/w)	
101-25-7	Dinitrosopentamethylenetetramine	3	11, Sup 7		1987	4	0.1% by weight (w/w)	
101-61-1	Michler's base [4,4'-methylenbis(N,N-dimethyl)-benzenamine]	2B	27, Sup 7, 99		2010	4	0.1% by weight (w/w)	
101-68-8	4,4'-Methylenediphenyl diisocyanate	3	19, Sup 7, 71		1999	4	0.1% by weight (w/w)	
101-77-9	4,4'-Methylenedianiline	2B	39, Sup 7		1987	1,3	0.1% by weight (w/w)	
101-80-4	4,4'-Diaminodiphenyl ether	2B	29, Sup 7		1987	1	0.1% by weight (w/w)	
101-90-6	Diglycidyl resorcinol ether	2B	36, Sup 7, 71		1999	1	0.1% by weight (w/w)	
101043-37-2	Microcystin-LR	2B		94	2010	1	0.1% by weight (w/w)	
102-50-1	meta-Cresidine	3	27, Sup 7		1987	1	0.1% by weight (w/w)	
102-71-6	Triethanolamine	3		77	2000	1	0.1% by weight (w/w)	
103-03-7	Phenacarbazine	3	12, Sup 7		1987	1	0.1% by weight (w/w)	
103-11-7	2-Ethylhexyl acrylate	2B	60, 122		2019	1	0.1% by weight (w/w)	
103-23-1	Di(2-ethylhexyl) adipate	3	Sup 7, 77		2000	1	0.1% by weight (w/w)	
103-33-3	Azobenzene	3	8, Sup 7		1987	2	0.1% by weight (w/w)	
103-90-2	Acetaminophen (see Paracetamol)					2	0.1% by weight (w/w)	
103-90-2	Paracetamol (Acetaminophen)	3	50, 73		1999	2	0.1% by weight (w/w)	
10380-28-6	Copper 8-hydroxyquinoline	3	15, Sup 7		1987	2	0.1% by weight (w/w)	
104-94-9	para-Anisidine	3	27, Sup 7		1987	2	0.1% by weight (w/w)	
105-11-3	para-Benzoquinone dioxime	3	29, Sup 7, 71		1999	2	0.1% by weight (w/w)	
105-55-5	N,N'-Diethylthiourea	3		79	2001	2	0.1% by weight (w/w)	

Agents in the list of World Health Organization International Agency for Research on Cancer (IARC) Group 1, 2A, 2B, 3, or 4.

Source: <https://monographs.iarc.who.int/list-of-classifications>

Date of Last Update to

List: Last updated: 2022-09-07 10:34am (CEST)

CAS No.	Agent	Group	Volume	Year	Additional information	Toxicity Classify	Limit	notes from REC Silicon
105-60-2	Caprolactam		3 39, Sup 7, 71	1999	Moved to Group 3 following 2019 update to the IARC Monographs Preamble	2	0.1% by weight (w/w)	
105-74-8	Lauroyl peroxide		3 36, Sup 7, 71	1999		2	0.1% by weight (w/w)	
10540-29-1	Tamoxifen		1 66, 100A	2012	NB There is also conclusive evidence that tamoxifen reduces the risk of contralateral breast cancer in breast cancer patients	2	0.1% by weight (w/w)	
105650-23-5	PhIP (2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine)	2B		1993		2	0.1% by weight (w/w)	
105735-71-5	3,7-Dinitrofluoranthene	2B	46, 65, 105	2014		2	0.1% by weight (w/w)	
10595-95-6	N-Nitrosomethylethylamine	2B	17, Sup 7	1987		2	0.1% by weight (w/w)	
10599-90-3	Chloramine	3		84	2004	2	0.1% by weight (w/w)	
106-46-7	para-Dichlorobenzene	2B	Sup 7, 73	1999		3	0.1% by weight (w/w)	
106-47-8	para-Chloroaniline	2B		57	1993	3	0.1% by weight (w/w)	
106-50-3	para-Phenylenediamine	3	16, Sup 7	1987		3	0.1% by weight (w/w)	
106-51-4	para-Quinone	3	15, Sup 7, 71	1999		3	0.1% by weight (w/w)	
106-87-6	4-Vinylcyclohexene diepoxide	2B	Sup 7, 60	1994		3	0.1% by weight (w/w)	
106-88-7	1,2-Epoxybutane	2B	47, 71	1999	NB Overall evaluation upgraded to Group 2B with supporting evidence from other relevant data	3	0.1% by weight (w/w)	
106-89-8	Epichlorohydrin	2A	11, Sup 7, 71	1999	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data	4	0.1% by weight (w/w)	
106-91-2	Glycidyl methacrylate	2A		125	2020 online	4	0.1% by weight (w/w)	
106-93-4	Ethylene dibromide	2A	15, Sup 7, 71	1999	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data	4	0.1% by weight (w/w)	
106-94-5	1-Bromopropane	2B		115	2018	4	0.1% by weight (w/w)	
106-99-0	1,3-Butadiene	1	Sup 7, 54, 71, 97, 100F	2012		4	0.1% by weight (w/w)	
107-02-8	Acrolein	2A	63 (corr. 65), Sup 7, 128	2021 online		4	0.1% by weight (w/w)	
107-05-1	Allyl chloride	3	36, Sup 7, 71, 125	2020 online		1	0.1% by weight (w/w)	
107-06-2	1,2-Dichloroethane	2B	20, Sup 7, 71	1999		1	0.1% by weight (w/w)	
107-13-1	Acrylonitrile	2B		71	1999	1	0.1% by weight (w/w)	
107-14-2	Chloroacetonitrile	3	52, 71	1999		4	0.1% by weight (w/w)	
107-30-2	Chloromethyl methyl ether (see Bis(chloromethyl)ether; chloromethyl methyl ether)					4	0.1% by weight (w/w)	
1071-83-6	Glyphosate	2A		112	2017	4	0.1% by weight (w/w)	
1072-52-2	2-(1-Aziridinyl)ethanol	3	9, Sup 7	1987		4	0.1% by weight (w/w)	
108-05-4	Vinyl acetate	2B	Sup 7, 63	1995		4	0.1% by weight (w/w)	
108-10-1	Methyl isobutyl ketone	2B		101	2013	4	0.1% by weight (w/w)	
108-30-5	Succinic anhydride	3	15, Sup 7	1987		4	0.1% by weight (w/w)	
108-45-2	meta-Phenylenediamine	3	16, Sup 7	1987		4	0.1% by weight (w/w)	
108-46-3	Resorcinol	3	15, Sup 7, 71	1999		4	0.1% by weight (w/w)	
108-60-1	Bis(2-chloro-1-methylethyl)ether	3	41, Sup 7, 71	1999		4	0.1% by weight (w/w)	
108-78-1	Melamine	2B	Sup 7, 73, 119	2019		4	0.1% by weight (w/w)	
108-88-3	Toluene	3	47, 71	1999		4	0.1% by weight (w/w)	
108-94-1	Cyclohexanone	3	47, 71	1999		4	0.1% by weight (w/w)	
108-95-2	Phenol	3	47, 71	1999		4	0.1% by weight (w/w)	
108-99-6	β-Picoline	3		122	2019	4	0.1% by weight (w/w)	
109-70-6	1-Bromo-3-chloropropane	2B		125	2020 online	4	0.1% by weight (w/w)	
109-99-9	Tetrahydrofuran	2B		119	2019	4	0.1% by weight (w/w)	
110-00-9	Furan	2B		63	1995	4	0.1% by weight (w/w)	
110-57-6	trans-1,4-Dichlorobutene	3	15, Sup 7, 71	1999		4	0.1% by weight (w/w)	
110-86-1	Pyridine	2B	77, 119	2019		4	0.1% by weight (w/w)	
110-91-8	Morpholine	3	47, 71	1999		4	0.1% by weight (w/w)	
11056-06-7	Bleomycins	2B	26, Sup 7	1987	NB Overall evaluation upgraded to Group 2B with supporting evidence from other relevant data	4	0.1% by weight (w/w)	
111-42-2	Diethanolamine	2B	77, 101	2013		4	0.1% by weight (w/w)	
111-44-4	Bis(2-chloroethyl)ether	3	9, Sup 7, 71	1999		4	0.1% by weight (w/w)	
111-76-2	2-Butoxyethanol	3		88	2006	4	0.1% by weight (w/w)	
111025-46-8	Pioglitazone	2A		108	2016	4	0.1% by weight (w/w)	
111189-32-3	Naphtho[1,2-b]fluoranthene	3		92	2010	4	0.1% by weight (w/w)	
1116-54-7	N-Nitrosodiethanolamine	2B	17, Sup 7, 77	2000		4	0.1% by weight (w/w)	
1120-71-4	1,3-Propane sultone	2A	4, Sup 7, 71, 110	2017	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data	4	0.1% by weight (w/w)	
1143-38-0	Dithranol	3	13; Sup 7	1987		4	0.1% by weight (w/w)	
115-02-6	Azaserine	2B	10, Sup 7	1987		4	0.1% by weight (w/w)	
115-07-1	Propylene	3	Sup 7, 60	1994		4	0.1% by weight (w/w)	
115-28-6	Chlorendic acid	2B		48	1990	4	0.1% by weight (w/w)	
115-32-2	Dicofol	3	30, Sup 7	1987		1	0.1% by weight (w/w)	
115-96-8	Tris(2-chloroethyl) phosphate	3	48, 71	1999		1	0.1% by weight (w/w)	
116-06-3	Aldicarb	3		53	1991	2	0.1% by weight (w/w)	
116-14-3	Tetrafluoroethylene	2A	19, Sup 7, 71, 110	2017	NB Overall evaluation upgraded to Group 2A on the basis of sufficient evidence in experimental animals with a striking and atypical pattern of tumours	2	0.1% by weight (w/w)	
1163-19-5	Decabromodiphenyl oxide	3	48, 71	1999		2	0.1% by weight (w/w)	
116355-83-0	Fusarium moniliforme, toxins derived from (fumonisin B1, fumonisin B2, and fusarin C)	2B		56	1993	2	0.1% by weight (w/w)	
116355-83-0	Fumonisin B1	2B		82	2002	2	0.1% by weight (w/w)	
117-10-2	Dantrolen (Chrysazin; 1,8-Dihydroxyanthraquinone)	2B		50	1990	3	0.1% by weight (w/w)	
117-39-5	Quercetin	3	Sup 7, 73	1999		3	0.1% by weight (w/w)	
117-79-3	2-Aminoanthraquinone	3	27, Sup 7	1987		3	0.1% by weight (w/w)	
117-81-7	Bis(2-ethylhexyl) phthalate (see Di(2-ethylhexyl) phthalate)					3	0.1% by weight (w/w)	
117-81-7	Di(2-ethylhexyl)phthalate	2B	Sup 7, 77, 101	2013		4	0.1% by weight (w/w)	
118-74-1	Hexachlorobenzene	2B	Sup 7, 79	2001		4	0.1% by weight (w/w)	
118-92-3	Anthranilic acid	3	16, Sup 7	1987		4	0.1% by weight (w/w)	
118-96-7	2,4,6-Trinitrotoluene	3		65	1996	4	0.1% by weight (w/w)	
118399-22-7	Nodularins	3		94	2010	4	0.1% by weight (w/w)	
119-34-6	4-Amino-2-nitrophenol	3	16, Sup 7	1987		1	0.1% by weight (w/w)	
119-61-9	Benzophenone	2B		101	2013	1	0.1% by weight (w/w)	
119-90-4	3,3'-Dimethoxybenzidine (ortho-Dianisidine)	2B	4, Sup 7	1987		4	0.1% by weight (w/w)	
119-93-7	3,3'-Dimethylbenzidine (ortho-Tolidine)	2B	1, Sup 7	1987		1,3	0.1% by weight (w/w)	
120-12-7	Anthracene	3	92, Sup 7	2010		1,3	0.1% by weight (w/w)	
120-58-1	Isosafrole	3	10, Sup 7	1987		1,2	0.1% by weight (w/w)	
120-71-8	para-Cresidine	2B	27, Sup 7	1987		1,2	0.1% by weight (w/w)	
120-80-9	Catechol	2B	15, Sup 7, 71	1999		1	0.1% by weight (w/w)	
12001-79-5	Vitamin K substances	3		76	2000	1	0.1% by weight (w/w)	
12070-12-1, 7440-48-4	Tungsten carbide with cobalt metal (see Cobalt metal with tungsten carbide)					1,3	0.1% by weight (w/w)	
121-14-2	2,4-Dinitrotoluene	2B		65	1996	1	0.1% by weight (w/w)	
121-66-4	2-Amino-5-nitrothiazole	3	31, Sup 7	1987		1,3	0.1% by weight (w/w)	
121-69-7	N,N-Dimethylaniline	3		57	1993	1,3	0.1% by weight (w/w)	
121-75-5	Malathion	2A	30, Sup 7, 112	2017		1,3	0.1% by weight (w/w)	
121-88-0	2-Amino-5-nitrophenol	3		57	1993	1,3	0.1% by weight (w/w)	
12122-67-7	Zineb	3	12, Sup 7	1987		2	0.1% by weight (w/w)	
12174-11-7	Attapulgite (see Palygorskite)					1	0.1% by weight (w/w)	
12174-11-7	Palygorskite (Attapulgite) (long fibres, > 5 micrometres)	2B		68	1997	1	0.1% by weight (w/w)	
12174-11-7	Palygorskite (Attapulgite) (short fibres, < 5 micrometres)	3		68	1997	1	0.1% by weight (w/w)	
12192-57-3	Aurothioglucose	3	13, Sup 7	1987		1	0.1% by weight (w/w)	
122-34-9	Simazine	3	53, 73	1999		4	0.1% by weight (w/w)	
122-39-4	Diphenylamine	2B		130	2022 online	4	0.1% by weight (w/w)	
122-42-9	Propham	3	12, Sup 7	1987		4	0.1% by weight (w/w)	
122-60-1	Phenyl glycidyl ether	2B	47, 71	1999		4	0.1% by weight (w/w)	

Agents in the list of World Health Organization International Agency for Research on Cancer (IARC) Group 1, 2A, 2B, 3, or 4.

Source: <https://monographs.iarc.who.int/list-of-classifications>

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CAS No.	Agent	Group	Volume	Year	Additional information	Toxicity Classify	Limit	notes from REC Silicon
122-66-7	1,2-Diphenylhydrazine	2B		130	2022 online		0.1% by weight (w/w)	
122320-73-4	Rosiglitazone		3	108	2016		0.1% by weight (w/w)	
123-31-9	Hydroquinone		3 15, Sup 7, 71		1999		0.1% by weight (w/w)	
123-33-1	Maleic hydrazide		3 4, Sup 7		1987		0.1% by weight (w/w)	
123-35-3	β-Myrcene	2B		119	2019		0.1% by weight (w/w)	
123-91-1	1,4-Dioxane	2B	11, Sup 7, 71		1999		0.1% by weight (w/w)	
124-48-1	Chlorodibromomethane		3 52, 71		1999		0.1% by weight (w/w)	
124-58-3	Methylarsonic acid	2B	100C		2012		0.1% by weight (w/w)	
124-58-3	Monomethylarsonic acid (see Methylarsonic acid)						0.1% by weight (w/w)	
12427-38-2	Maneb		3 12, Sup 7		1987		0.1% by weight (w/w)	
125-33-7	Primidone	2B		108	2016		0.1% by weight (w/w)	
126-07-8	Griseofulvin	2B	Sup 7, 79		2001		0.1% by weight (w/w)	
126-72-7	Tris(2,3-dibromopropyl) phosphate	2A	20, Sup 7, 71		1999	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data	0.1% by weight (w/w)	
126-85-2	Nitrogen mustard N-oxide	2B	9, Sup 7		1987		0.1% by weight (w/w)	
126-99-8	Chloroprene	2B	Sup 7, 71		1999		0.1% by weight (w/w)	
12663-46-6	Cyclochlorotriene		3 10, Sup 7		1987		0.1% by weight (w/w)	
127-07-1	Hydroxyurea		3	76	2000		0.1% by weight (w/w)	
127-18-4	Tetrachloroethylene (Perchloroethylene)	2A	Sup 7, 63, 106		2014		0.1% by weight (w/w)	
127-19-5	N,N-Dimethylacetamide	2B		123	2020 online		0.1% by weight (w/w)	
127-69-5	Sulfafurazole (Sulfisoxazole)		3 24, Sup 7		1987		0.1% by weight (w/w)	
128-37-0	Butylated hydroxytoluene (BHT)		3 40, Sup 7		1987		0.1% by weight (w/w)	
128-66-5	Vat Yellow 4		3	48	1990		0.1% by weight (w/w)	
129-00-0	Pyrene		3 Sup 7, 92		2010		0.1% by weight (w/w)	
129-15-7	2-Methyl-1-nitroanthraquinone (uncertain purity)	2B	27, Sup 7		1987		0.1% by weight (w/w)	
129-17-9	Blue VRS		3 16, Sup 7		1987		0.1% by weight (w/w)	
129-20-4	Oxyphenbutazone		3 13, Sup 7		1987		0.1% by weight (w/w)	
129-43-1	1-Hydroxyanthraquinone	2B		82	2002		0.1% by weight (w/w)	
129-73-7	Leucomalachite green (see also Malachite green)	2B		129	2022 online		0.1% by weight (w/w)	
13010-47-4	1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU)	2A	26, Sup 7		1987	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data	0.1% by weight (w/w)	
1303-00-0	Gallium arsenide (see Arsenic and inorganic arsenic compounds)		86, 100C		2012		0.1% by weight (w/w)	
13045-94-8	Medphalan		3 9, Sup 7		1987		0.1% by weight (w/w)	
1307-96-6	Cobalt(II) oxide	2B	52, 131		In prep.		0.1% by weight (w/w)	
1308-06-1	Cobalt(II,III) oxide		3 52, 131		In prep.		0.1% by weight (w/w)	
1309-37-1	Ferric oxide		3 1, Sup 7		1987		0.1% by weight (w/w)	
1309-64-4	Antimony trioxide, see Trivalent antimony						0.1% by weight (w/w)	
131-79-3	Yellow OB		3 8, Sup 7		1987		0.1% by weight (w/w)	
1313-27-5	Molybdenum trioxide	2B		118	2018 online		0.1% by weight (w/w)	
1314-62-1	Vanadium pentoxide	2B		86	2006		0.1% by weight (w/w)	
1317-42-6	Cobalt(II) sulfide		3 52, 131		In prep.		0.1% by weight (w/w)	
1317-60-8	Haematite		3 1, Sup 7		1987		0.1% by weight (w/w)	
1318-02-1	Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite, synthetic zeolites)		3	68	1997		0.1% by weight (w/w)	
132-27-4	Sodium ortho-phenylphenate	2B	Sup 7, 73		1999		0.1% by weight (w/w)	
132-65-0	Dibenzothiophene		3	103	2013		0.1% by weight (w/w)	
13233-32-4	Radium-224 and its decay products		1 78, 100D		2012		0.1% by weight (w/w)	
13256-22-9	N-Nitrososarcosine	2B	17, Sup 7		1987		0.1% by weight (w/w)	
13292-46-1	Rifampicin		3 24, Sup 7		1987		0.1% by weight (w/w)	
133-06-2	Captan		3 30, Sup 7		1987		0.1% by weight (w/w)	
1330-20-7	Xylenes		3 47, 71		1999		0.1% by weight (w/w)	
1332-21-4, 12172-73-5, 12001-29-5, 12001-28-4	Asbestos (all forms, including actinolite, amosite, anthophyllite, chrysotile, crocidolite, tremolite)		1 14, Sup 7, 100C		2012	NB Mineral substances (e.g. talc or vermiculite) that contain asbestos should also be regarded as carcinogenic to humans *The presence of an asterisk indicates that the registration is for a substance which CAS does not treat in its regular CA index	0.1% by weight (w/w)	
1333-86-4	Carbon black	2B	Sup 7, 65, 93		2010		0.1% by weight (w/w)	
1336-36-3	Polychlorinated biphenyls		1 18, Sup 7, 107		2016		0.1% by weight (w/w)	
1338-16-5	Iron sorbitol-citric acid complex		3 2, Sup 7		1987		0.1% by weight (w/w)	
134-29-2	ortho-Anisidine hydrochloride (see also ortho-Anisidine)	2A		127	2021 online		0.1% by weight (w/w)	
134-32-7	1-Naphthylamine		3 4, Sup 7		1987		0.1% by weight (w/w)	
1345-04-6	Antimony trisulfide, see Trivalent antimony						0.1% by weight (w/w)	
13463-67-7	Titanium dioxide	2B	47, 93		2010		0.1% by weight (w/w)	
13483-18-6	1,2-Bis(chloromethoxy)ethane		3 15, Sup 7, 71		1999		0.1% by weight (w/w)	
135-20-6	Cupferron	2B		127	2021 online		0.1% by weight (w/w)	
135-88-6	N-Phenyl-2-naphthylamine		3 16, Sup 7		1987		0.1% by weight (w/w)	
136-40-3	Phenazopyridine hydrochloride	2B	24, Sup 7		1987		0.1% by weight (w/w)	
137-17-7	2,4,5-Trimethylaniline		3 27, Sup 7		1987		0.1% by weight (w/w)	
137-26-8	Thiram		3 Sup 7, 53		1991		0.1% by weight (w/w)	
137-30-4	Ziram		3 Sup 7, 53		1991		0.1% by weight (w/w)	
138-59-0	Shikimic acid		3 40, Sup 7		1987		0.1% by weight (w/w)	
139-05-9	Cyclamates (sodium cyclamate)		3 Sup 7, 73		1999		0.1% by weight (w/w)	
139-13-9	Nitrotriacetic acid and its salts	2B	48, 73		1999	NB Evaluated as a group	0.1% by weight (w/w)	
139-65-1	4,4'-Thiodianiline	2B	27, Sup 7		1987		0.1% by weight (w/w)	
139-94-6	Nitiazide		3 31, Sup 7		1987		0.1% by weight (w/w)	
13909-09-6	1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea (Methyl-CCNU) (see Semustine)						0.1% by weight (w/w)	
13909-09-6	Semustine [1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea, Methyl-CCNU]		1 Sup 7, 100A		2012		0.1% by weight (w/w)	
13982-63-3	Radium-226 and its decay products		1 78, 100D		2012		0.1% by weight (w/w)	
13983-17-0	Wollastonite		3 Sup 7, 68		1997		0.1% by weight (w/w)	
140-11-4	Benzyl acetate		3 40, Sup 7, 71		1999		0.1% by weight (w/w)	
140-56-7	para-Dimethylaminoazobenzene diazo sodium sulfonate		3 8, Sup 7		1987		0.1% by weight (w/w)	
140-57-8	Aramite®	2B	5, Sup 7		1987		0.1% by weight (w/w)	
140-88-5	Ethyl acrylate	2B	39, Sup 7, 71, 122		2019		0.1% by weight (w/w)	
1401-55-4	Tannic acid and tannins		3 10, Sup 7		1987		0.1% by weight (w/w)	
1402-68-2	Aflatoxins		1 Sup 7, 56, 82, 100F		2012		0.1% by weight (w/w)	
14047-09-7	3,3',4,4'-Tetrachloroazobenzene	2A		117	2019	NB Overall evaluation upgraded to Group 2A	0.1% by weight (w/w)	
141-32-2	n-Butyl acrylate		3 39, Sup 7, 71		1999		0.1% by weight (w/w)	
141-37-7	3,4-Epoxy-6-methylcyclohexylmethyl-3,4-epoxy-6-methylcyclohexanecarboxylate		3 11, Sup 7, 71		1999		0.1% by weight (w/w)	
141-90-2	Thiouacil	2B	Sup 7, 79		2001		0.1% by weight (w/w)	
142-04-1	Aniline hydrochloride (see also Aniline)	2A		127	2021 online		0.1% by weight (w/w)	
142-83-6	2,4-Hexadienal	2B		101	2013		0.1% by weight (w/w)	
143-50-0	Chlordecone (Kepone)	2B	20, Sup 7		1987		0.1% by weight (w/w)	
143-67-9	Vinblastine sulfate		3 26, Sup 7		1987		0.1% by weight (w/w)	
144-34-3	Methyl selenac		3 12, Sup 7		1987		0.1% by weight (w/w)	
14484-64-1	Ferbam		3 12, Sup 7		1987		0.1% by weight (w/w)	
14596-37-3	Phosphorus-32, as phosphate		1 78, 100D		2012		0.1% by weight (w/w)	
1464-53-5	1,2,3,4-Diepoxybutane (see Monographs on 1,3-Butadiene)		11, Sup 7		1987		0.1% by weight (w/w)	
148-18-5	Sodium diethyldithiocarbamate		3 12, Sup 7		1987		0.1% by weight (w/w)	
148-24-3	8-Hydroxyquinoline		3 13, Sup 7		1987		0.1% by weight (w/w)	
148-82-3	Melphalan		1 9, Sup 7, 100A		2012		0.1% by weight (w/w)	
14807-96-6	Talc containing asbestiform fibres (see Asbestos)		42, Sup 7		1987		0.1% by weight (w/w)	
14807-96-6	Talc not containing asbestos or asbestiform fibres		3 42, Sup 7, 93		2010		0.1% by weight (w/w)	
14807-96-6	Talc-based body powder (perineal use of)	2B		93	2010		0.1% by weight (w/w)	
14808-60-7	Silica dust, crystalline, in the form of quartz or cristobalite		1 Sup 7, 68, 100C		2012		0.1% by weight (w/w)	
149-29-1	Patulin		3 40, Sup 7		1987		0.1% by weight (w/w)	

Agents in the list of World Health Organization International Agency for Research on Cancer (IARC) Group 1, 2A, 2B, 3, or 4.

Source: <https://monographs.iarc.who.int/list-of-classifications>

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CAS No.	Agent	Group	Volume	Year	Additional information	Toxicity Classify	Limit	notes from REC Silicon
149-30-4	2-Mercaptobenzothiazole	2A		115	2018		0.1% by weight (w/w)	
14901-08-7	Cycasin	2B	10, Sup 7		1987		0.1% by weight (w/w)	
150-13-0	para-Aminobenzoic acid		3 16, Sup 7		1987		0.1% by weight (w/w)	
150-68-5	Monuron		3 Sup 7, 53		1991		0.1% by weight (w/w)	
150-69-6	Dulcin		3 12, Sup 7		1987		0.1% by weight (w/w)	
15086-94-9	Eosin		3 15, Sup 7		1987		0.1% by weight (w/w)	
151-56-4	Aziridine	2B	9, Sup 7, 71		1999	NB Overall evaluation upgraded to Group 2B with supporting evidence from other relevant data	0.1% by weight (w/w)	
15262-20-1	Radium-228 and its decay products		1 78, 100D		2012		0.1% by weight (w/w)	
154-93-8	Bischloroethyl nitrosourea (BCNU)	2A	26, Sup 7		1987		0.1% by weight (w/w)	
15501-74-3	Sepiolite		3 Sup 7, 68		1997		0.1% by weight (w/w)	
15503-86-3	Isatidine		3 10, Sup 7		1987		0.1% by weight (w/w)	
156-10-5	para-Nitrosodiphenylamine		3 27, Sup 7		1987		0.1% by weight (w/w)	
156-51-4	Phenazine sulfate		3 24, Sup 7		1987		0.1% by weight (w/w)	
15625-89-5	Trimethylolpropane triacrylate, technical grade	2B		122	2019		0.1% by weight (w/w)	
15663-27-1	Cisplatin	2A	26, Sup 7		1987	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data	0.1% by weight (w/w)	
15721-02-5	2,2',5,5'-Tetrachlorobenzidine		3 27, Sup 7		1987		0.1% by weight (w/w)	
1582-09-8	Trifluralin		3	53	1991		0.1% by weight (w/w)	
16065-83-1	Chromium (III) compounds		3	49	1990		0.1% by weight (w/w)	
16071-86-6	CI Direct Brown 95 (see Benzidine, dyes metabolized to)						0.1% by weight (w/w)	
1615-80-1	1,2-Diethylhydrazine	2B	4, Sup 7, 71		1999		0.1% by weight (w/w)	
1634-04-4	Methyl tert-butyl ether		3	73	1999		0.1% by weight (w/w)	
16543-55-8, 64091-91-4	N'-Nitrosomornicotine (NNN) and 4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone (NNK)		1 Sup 7, 89, 100E		2012	NB Overall evaluation upgraded to Group 1 based on mechanistic and other relevant data	0.1% by weight (w/w)	
16568-02-8	Gyromitrin		3 31, Sup 7		1987		0.1% by weight (w/w)	
1675-54-3	Bisphenol A diglycidyl ether (Araldite)		3 47, 71		1999		0.1% by weight (w/w)	
1689-82-3	4-Hydroxyazobenzene		3 8, Sup 7		1987		0.1% by weight (w/w)	
1694-09-3	Benzyl violet 4B	2B	16, Sup 7		1987		0.1% by weight (w/w)	
16984-48-8	Fluorides (inorganic, used in drinking-water)		3 27, Sup 7		1987		0.1% by weight (w/w)	
1705-85-7	6-Methylchrysene		3 Sup 7, 92		2010		0.1% by weight (w/w)	
1706-01-0	3-Methylfluoranthene		3 Sup 7, 92		2010		0.1% by weight (w/w)	
17117-34-9	3-Nitrobenzanthrone	2B		105	2014	NB Overall evaluation upgraded to Group 2B with supporting evidence from other relevant data	0.1% by weight (w/w)	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-para-dioxin		1 Sup 7, 69, 100F		2012		0.1% by weight (w/w)	
1836-75-5	Nitrofen (technical-grade)	2B	30, Sup 7		1987		0.1% by weight (w/w)	
18540-29-9	Chromium (VI) compounds		1 Sup 7, 49, 100C		2012		0.1% by weight (w/w)	
18883-66-4	Streptozotocin	2B	17, Sup 7		1987		0.1% by weight (w/w)	
189-55-9	Dibenzo[a,h]pyrene	2B		92	2010		0.1% by weight (w/w)	
189-64-0	Dibenzo[a,h]pyrene	2B	Sup 7, 92		2010		0.1% by weight (w/w)	
1897-45-6	Chlorothalonil	2B	Sup 7, 73		1999		0.1% by weight (w/w)	
191-07-1	Coronene		3 32, Sup 7, 92		1987		0.1% by weight (w/w)	
191-24-2	Benzo[ghi]perylene		3 92, Sup 7		2010		0.1% by weight (w/w)	
191-26-4	Anthanthrene		3 92, Sup 7		2010		0.1% by weight (w/w)	
191-30-0	Dibenzo[a,h]pyrene	2A	Sup 7, 92		2010	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data	0.1% by weight (w/w)	
1912-24-9	Atrazine		3 53, 73		1999	NB Overall evaluation downgraded to Group 3 with supporting evidence from other relevant data	0.1% by weight (w/w)	
1918-02-1	Picloram		3	53	1991		0.1% by weight (w/w)	
192-47-2	Dibenzo[h,rst]pentaphene		3 Sup 7, 92		2010		0.1% by weight (w/w)	
192-51-8	Dibenzo[e,h]pyrene		3	92	2010		0.1% by weight (w/w)	
192-65-4	Dibenzo[a,e]pyrene		3 Sup 7, 92		2010		0.1% by weight (w/w)	
192-97-2	Benzo[e]pyrene		3 92, Sup 7		2010		0.1% by weight (w/w)	
193-09-9	Naphtho[2,3-e]pyrene		3	92	2010		0.1% by weight (w/w)	
193-39-5	Indeno[1,2,3-cd]pyrene	2B	Sup 7, 92		2010		0.1% by weight (w/w)	
1936-15-8	CI Orange G		3 8, Sup 7		1987		0.1% by weight (w/w)	
1936-15-8	Orange G (see CI Orange G)						0.1% by weight (w/w)	
1937-37-7	CI Direct Black 38 (see Benzidine, dyes metabolized to)						0.1% by weight (w/w)	
194-59-2	7H-Dibenzo[c,g]carbazole	2B	32, Sup 7, 103		2013		0.1% by weight (w/w)	
195-19-7	Benzo[c]phenanthrene	2B	92, Sup 7		2010	NB Overall evaluation upgraded to Group 2B with supporting evidence from other relevant data	0.1% by weight (w/w)	
1954-28-5	Triethylene glycol diglycidyl ether		3 11, Sup 7, 71		1999		0.1% by weight (w/w)	
196-78-1	Benzo[g]chrysene		3	92	2010		0.1% by weight (w/w)	
198-55-0	Perylene		3 Sup 7, 92		2010		0.1% by weight (w/w)	
20073-24-9	3-Carboxyoxysoralen		3 40, Sup 7		1987		0.1% by weight (w/w)	
202-33-5	Benzo[a]aceanthrylene	2B		92	2010	NB Overall evaluation upgraded to Group 2B with supporting mechanistic and other relevant data	0.1% by weight (w/w)	
202-94-8	11H-Benzo[bc]aceanthrylene		3	92	2010		0.1% by weight (w/w)	
202-98-2	4H-Cyclopenta[def]chrysene		3	92	2010		0.1% by weight (w/w)	
20268-51-3	7-Nitrobenz[a]anthracene		3	46	1989		0.1% by weight (w/w)	
203-12-3	Benzo[ghi]fluoranthene		3 92, Sup 7		2010		0.1% by weight (w/w)	
203-20-3	Naphtho[2,1-g]fluoranthene		3	92	2010		0.1% by weight (w/w)	
203-33-8	Benzo[a]fluoranthene		3 92, Sup 7		2010		0.1% by weight (w/w)	
205-12-9	Benzo[c]fluorene		3 92, Sup 7		2010		0.1% by weight (w/w)	
205-82-3	Benzo[j]fluoranthene	2B		92	2010		0.1% by weight (w/w)	
205-99-2	Benzo[b]fluoranthene	2B		92	2010		0.1% by weight (w/w)	
20589-63-3	3-Nitroperylene		3	46	1989		0.1% by weight (w/w)	
206-44-0	Fluoranthene		3 Sup 7, 92		2010		0.1% by weight (w/w)	
2068-78-2	Vincristine sulfate		3 26, Sup 7		1987		0.1% by weight (w/w)	
207-08-9	Benzo[k]fluoranthene	2B		92	2010		0.1% by weight (w/w)	
207-83-0	13H-Dibenzo[a,g]fluorene		3	92	2010		0.1% by weight (w/w)	
20830-75-5	Digoxin	2B		108	2016		0.1% by weight (w/w)	
20830-81-3	Daunomycin	2B	10, Sup 7		1987		0.1% by weight (w/w)	
20941-65-5	Ethyl tellurac		3 12, Sup 7		1987		0.1% by weight (w/w)	
211-91-6	Benzo[il]aceanthrylene		3	92	2010		0.1% by weight (w/w)	
21259-20-1	T2-Trichothecene		3 31, Sup 7		1987		0.1% by weight (w/w)	
213-46-7	Picene		3	92	2010		0.1% by weight (w/w)	
214-17-5	Benzo[b]chrysene		3	92	2010		0.1% by weight (w/w)	
215-58-7	Dibenzo[a,c]anthracene		3 Sup 7, 92		2010		0.1% by weight (w/w)	
2164-17-2	Fluometuron		3 30, Sup 7		1987		0.1% by weight (w/w)	
2168-68-5	Bis(1-aziridinyl)morpholinophosphine sulfide		3 9, Sup 7		1987		0.1% by weight (w/w)	
217-59-4	Triphenylene		3 Sup 7, 92		2010		0.1% by weight (w/w)	
218-01-9	Chrysene	2B		92	2010		0.1% by weight (w/w)	
21884-44-6	Luteoskyrin		3 10, Sup 7		1987		0.1% by weight (w/w)	
22248-79-9	Tetrachlorvinphos	2B	30, Sup 7, 112		2017		0.1% by weight (w/w)	
22349-59-3	1,4-Dimethylphenanthrene		3 Sup 7, 92		2010		0.1% by weight (w/w)	
22398-80-7	Indium phosphide	2A		86	2006	NB Overall evaluation upgraded to Group 2A	0.1% by weight (w/w)	
224-41-9	Dibenzo[a,h]anthracene		3 Sup 7, 92		2010		0.1% by weight (w/w)	
224-42-0	Dibenzo[a,j]acridine	2A	32, Sup 7, 103		2013	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data	0.1% by weight (w/w)	
224-53-3	Dibenzo[c,h]acridine	2B		103	2013	NB Overall evaluation upgraded to Group 2B with supporting evidence from other relevant data	0.1% by weight (w/w)	
2243-62-1	1,5-Naphthalenediamine		3 27, Sup 7		1987		0.1% by weight (w/w)	
225-11-6	Benzo[a]acridine		3 32, Sup 7, 103		2013		0.1% by weight (w/w)	
225-51-4	Benzo[c]acridine		3 32, Sup 7, 103		2013		0.1% by weight (w/w)	
22506-53-2	3,9-Dinitrofluoranthene	2B	46, 65, 105		2014		0.1% by weight (w/w)	
22571-95-5	Symphytine		3 31, Sup 7		1987		0.1% by weight (w/w)	
226-36-8	Dibenzo[a,h]acridine	2B	32, Sup 7, 103		2013		0.1% by weight (w/w)	

Source: <https://monographs.iarc.who.int/list-of-classifications>

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CAS No.	Agent	Group	Volume	Year	Additional information	Toxicity Classify	Limit	notes from REC Silicon
22966-79-6	Oestradiol mustard		3 9, Sup 7	1987			0.1% by weight (w/w)	
22975-76-4	4,4'-Dimethylangelicin plus ultraviolet A radiation		3 Sup 7	1987			0.1% by weight (w/w)	
2303-16-4	Diallate		3 30, Sup 7	1987			0.1% by weight (w/w)	
2318-18-5	Senkirkine		3 31, Sup 7	1987			0.1% by weight (w/w)	
23214-92-8	Adriamycin	2A	10, Sup 7	1987	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
23246-96-0	Riddelline	2B	10, Sup 7, 82	2002			0.1% by weight (w/w)	
23255-93-8	Hycanthone mesylate		3 13, Sup 7	1987			0.1% by weight (w/w)	
2353-45-9	Fast Green FCF		3 16, Sup 7	1987			0.1% by weight (w/w)	
23537-16-8	Rugulosin		3 40, Sup 7	1987			0.1% by weight (w/w)	
23746-34-1	Potassium bis(2-hydroxyethyl)dithiocarbamate		3 12, Sup 7	1987			0.1% by weight (w/w)	
238-84-6	Benzo[a]fluorene		3 92, Sup 7	2010			0.1% by weight (w/w)	
2385-85-5	Mirex	2B	20, Sup 7	1987			0.1% by weight (w/w)	
2386-90-5	Bis(2,3-epoxycyclopentyl)ether		3 47, 71	1999			0.1% by weight (w/w)	
239-35-0	Benzo[b]naphtho[2,1-d]thiophene		3	103 2013			0.1% by weight (w/w)	
2425-06-1	Captafol	2A		53 1991	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
2425-85-6	CI Pigment Red 3		3	57 1993			0.1% by weight (w/w)	
2426-08-6	1-Butylglycidyl ether	2B		125 2020 online			0.1% by weight (w/w)	
2429-74-5	CI Direct Blue 15	2B		57 1993			0.1% by weight (w/w)	
243-17-4	Benzo[b]fluorene		3 92, Sup 7	2010			0.1% by weight (w/w)	
2432-99-7	11-Aminoundecanoic acid		3 39, Sup 7	1987			0.1% by weight (w/w)	
24560-98-3	cis-9,10-Epoxystearic acid		3 11, Sup 7, 71	1999			0.1% by weight (w/w)	
2475-45-8	Disperse Blue 1	2B		48 1990			0.1% by weight (w/w)	
24938-64-5	para-Aramid fibrils		3	68 1997			0.1% by weight (w/w)	
25013-15-4	Vinyl toluene		3	60 1994			0.1% by weight (w/w)	
25013-16-5	Butylated hydroxyanisole (BHA)	2B	40, Sup 7	1987			0.1% by weight (w/w)	
25038-54-4	Nylon 6		3 19, Sup 7	1987			0.1% by weight (w/w)	
25732-74-5	Acetylene (3,4-dihydrocyclopenta[cd]pyrene)		3	92 2010			0.1% by weight (w/w)	
25812-30-0	Gemfibrozil		3	66 1996			0.1% by weight (w/w)	
25962-77-0	trans-2-[(Dimethylamino)methylimino]-5-[2-{5-nitro-2-furyl)-vinyl]-1,3,4-oxadiazole	2B	7, Sup 7	1987			0.1% by weight (w/w)	
2602-46-2	CI Direct Blue 6 (see Benzenidine, dyes metabolized to)						0.1% by weight (w/w)	
26148-68-5	A-alpha-C (2-Amino-9H-pyrido[2,3-b]indole)	2B	40, Sup 7	1987			0.1% by weight (w/w)	
262-12-4	Dibenzo-para-dioxin		3	69 1997			0.1% by weight (w/w)	
26308-28-1	Ripazepam		3	66 1996			0.1% by weight (w/w)	
2646-17-5	Oil Orange S5	2B	8, Sup 7	1987			0.1% by weight (w/w)	
26471-62-5	Toluene diisocyanates	2B	39, Sup 7, 71	1999			0.1% by weight (w/w)	
26782-43-4	Hydroxysenkirine		3 10, Sup 7	1987			0.1% by weight (w/w)	
271-89-6	Benzofuran	2B		63 1995			0.1% by weight (w/w)	
27208-37-3	Cyclopenta[cd]pyrene	2A	Sup 7, 92	2010	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
2757-90-6	Agariline		3 31, Sup 7	1987			0.1% by weight (w/w)	
2783-94-0	Sunset Yellow FCF		3 8, Sup 7	1987			0.1% by weight (w/w)	
2784-94-3	HC Blue No. 1	2B		57 1993			0.1% by weight (w/w)	
2832-40-8	Disperse Yellow 3		3	48 1990			0.1% by weight (w/w)	
2835-39-4	Allyl isovalerate		3 36, Sup 7, 71	1999			0.1% by weight (w/w)	
28407-37-6	CI Direct Blue 218	2B		129 2022 online			0.1% by weight (w/w)	
28434-86-8	3,3'-Dichloro-4,4'-diaminodiphenyl ether	2B	16, Sup 7	1987			0.1% by weight (w/w)	
2871-01-4	HC Red No. 3		3	57 1993			0.1% by weight (w/w)	
29069-24-7	Prednimustine		3	50 1990			0.1% by weight (w/w)	
29291-35-8	N-Nitrososulfonamide		3 17, Sup 7	1987			0.1% by weight (w/w)	
2955-38-6	Prazepam		3	66 1996			0.1% by weight (w/w)	
2973-10-6	Diisopropyl sulfate	2B	54, 71	1999			0.1% by weight (w/w)	
29767-20-2	Teniposide	2A		76 2000	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
298-00-0	Methyl parathion		3 30, Sup 7	1987			0.1% by weight (w/w)	
298-81-7	Methoxsalen (8-methoxypsoralen) plus ultraviolet A radiation		1 24, Sup 7, 100A	2012			0.1% by weight (w/w)	
299-75-2	Treosulfan		1 26, Sup 7, 100A	2012			0.1% by weight (w/w)	
29975-16-4	Estazolam		3	66 1996			0.1% by weight (w/w)	
3018-12-0	Dichloroacetoneitrile		3 52, 71	1999			0.1% by weight (w/w)	
302-01-2	Hydrazine	2A	4, Sup 7, 71, 115	2018			0.1% by weight (w/w)	
302-17-0	Chloral hydrate	2A	63, 84, 106	2014			0.1% by weight (w/w)	
303-34-4	Lasiocarpine	2B	10, Sup 7	1987			0.1% by weight (w/w)	
303-47-9	Ochratoxin A	2B	Sup 7, 56	1993			0.1% by weight (w/w)	
30310-80-6	N-Nitrosohydroxyproline		3 17, Sup 7	1987			0.1% by weight (w/w)	
305-03-3	Chlorambucil		1 26, Sup 7, 100A	2012			0.1% by weight (w/w)	
30516-87-1	Zidovudine (AZT)	2B		76 2000			0.1% by weight (w/w)	
3068-88-0	Beta-Butyrolactone	2B	11, Sup 7, 71	1999			0.1% by weight (w/w)	
308068-56-6	Carbon nanotubes, multiwalled MWCNT-7	2B		111 2017			0.1% by weight (w/w)	
308068-56-6	Carbon nanotubes, multiwalled, other than MWCNT-7		3	111 2017			0.1% by weight (w/w)	
308068-56-6	Carbon nanotubes, single-walled		3	111 2017			0.1% by weight (w/w)	
308068-56-6	Multiwalled carbon nanotubes MWCNT-7 (see Carbon nanotubes, multiwalled MWCNT-7)						0.1% by weight (w/w)	
308068-56-6	Multiwalled carbon nanotubes other than MWCNT-7 (see Carbon nanotubes, multiwalled, other than MWCNT-7)						0.1% by weight (w/w)	
308068-56-6	Single-walled carbon nanotubes (see Carbon nanotubes, single-walled)						0.1% by weight (w/w)	
308076-74-6	Silicon carbide, fibrous	2B		111 2017			0.1% by weight (w/w)	
309-00-2	Aldrin (see Dieldrin, and aldrin metabolized to dieldrin)						0.1% by weight (w/w)	
3118-97-6	Sudan II		3 8, Sup 7	1987			0.1% by weight (w/w)	
313-67-7	Aristolochic acid		1 82, 100A	2012	NB Overall evaluation upgraded to Group 1 based on mechanistic and other relevant data		0.1% by weight (w/w)	
313-67-7	Aristolochic acid, plants containing		1 82, 100A	2012			0.1% by weight (w/w)	
314-13-6	Evans blue		3 8, Sup 7	1987			0.1% by weight (w/w)	
315-18-4	Zectran		3 12, Sup 7	1987			0.1% by weight (w/w)	
315-22-0	Monocrotaline	2B	10, Sup 7	1987			0.1% by weight (w/w)	
3173-72-6	1,5-Naphthalene diisocyanate		3 19, Sup 7, 71	1999			0.1% by weight (w/w)	
320-67-2	Azacitidine	2A		50 1990	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
3252-43-5	Dibromooacetoneitrile	2B	52, 71, 101	2013			0.1% by weight (w/w)	
3296-90-0	2,2-Bis(bromomethyl)propane-1,3-diol	2B		77 2000			0.1% by weight (w/w)	
331-39-5	Caffeic acid	2B		56 1993			0.1% by weight (w/w)	
33229-34-4	HC Blue No. 2		3	57 1993			0.1% by weight (w/w)	
333-41-5	Diazinon	2A		112 2017	NB Overall evaluation upgraded to Group 2A based on mechanistic evidence		0.1% by weight (w/w)	
334-88-3	Diazomethane		3 7, Sup 7	1987			0.1% by weight (w/w)	
33419-42-0	Etoposide		1 76, 100A	2012	NB Overall evaluation upgraded to Group 1 based on mechanistic and other relevant data		0.1% by weight (w/w)	
33419-42-0, 15663-27-1, 11056-06-7	Etoposide in combination with cisplatin and bleomycin		1 76, 100A	2012			0.1% by weight (w/w)	
335-67-1	Perfluorooctanoic acid (PFOA)	2B		110 2017			0.1% by weight (w/w)	
3351-28-8	1-Methylchrysene		3 Sup 7, 92	2010			0.1% by weight (w/w)	
3351-30-2	4-Methylchrysene		3 Sup 7, 92	2010			0.1% by weight (w/w)	
3351-31-3	3-Methylchrysene		3 Sup 7, 92	2010			0.1% by weight (w/w)	
3351-32-4	2-Methylchrysene		3 Sup 7, 92	2010			0.1% by weight (w/w)	
33543-31-6	2-Methylfluoranthene		3 Sup 7, 92	2010			0.1% by weight (w/w)	
3564-09-8	Ponceau 3R	2B	8, Sup 7	1987			0.1% by weight (w/w)	
3567-69-9	Carmoisine		3 8, Sup 7	1987			0.1% by weight (w/w)	

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CAS No.	Agent	Group	Volume	Year	Additional information	Toxicity Classify	Limit	notes from REC Silicon
3570-75-0	2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	2B	7, Sup 7	1987	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
366-70-1	Procarbazine hydrochloride	2A	26, Sup 7	1987			0.1% by weight (w/w)	
3688-53-7	AF-2 [2-(2-Furyl)-3-(5-nitro-2-furyl)acrylamide]	2B	31, Sup 7	1987			0.1% by weight (w/w)	
3697-24-3	5-Methylchrysene	2B	Sup 7, 92	2010			0.1% by weight (w/w)	
37319-17-8	Pentosan polysulfate sodium	2B		2016			0.1% by weight (w/w)	
3761-53-3	Ponceau MX	2B	8, Sup 7	1987			0.1% by weight (w/w)	
37620-20-5	N'-Nitrosoanabasine (NAB)	3	37, Sup 7, 89	2007			0.1% by weight (w/w)	
3771-19-5	Nafenopin	2B	24, Sup 7	1987			0.1% by weight (w/w)	
3778-73-2	Isophosphamide	3	26, Sup 7	1987			0.1% by weight (w/w)	
3795-88-8	5-(Morpholinomethyl)-3-[[5-nitrofurfurylidene)-amino]-2-oxazolidinone	2B	7, Sup 7	1987			0.1% by weight (w/w)	
3844-45-9	Brilliant Blue FCF, disodium salt		3 16, Sup 7	1987			0.1% by weight (w/w)	
38571-73-2	1,2,3-Tris(chloromethoxy)propane		3 15, Sup 7, 71	1999			0.1% by weight (w/w)	
3902-71-4	4,5',8-Trimethylpsoralen		3 40, Sup 7	1987			0.1% by weight (w/w)	
396-01-0	Triamterene	2B		2016			0.1% by weight (w/w)	
4063-41-6	4,5'-Dimethylangelicin plus ultraviolet A radiation	3	Sup 7	1987			0.1% by weight (w/w)	
40762-15-0	Dofetilapam	3		66	1996		0.1% by weight (w/w)	
409-1-2	Silicon carbide whiskers	2A		111	2017		0.1% by weight (w/w)	
4170-30-3	Crotonaldehyde	2B	63 (corr. 65), 128	2021 online			0.1% by weight (w/w)	
420-12-2	Ethylene sulfide		3 11, Sup 7	1987			0.1% by weight (w/w)	
42397-64-8	1,6-Dinitropyrene	2B	46, 105	2014			0.1% by weight (w/w)	
42397-65-9	1,8-Dinitropyrene	2B	Sup 7, 46, 105	2014			0.1% by weight (w/w)	
4342-03-4	Dacarbazine	2B	26, Sup 7	1987			0.1% by weight (w/w)	
439-14-5	Diazepam	3	Sup 7, 66	1996			0.1% by weight (w/w)	
443-48-1	Metronidazole	2B	13, Sup 7	1987			0.1% by weight (w/w)	
446-86-6	Azathioprine		1 26, Sup 7, 100A	2012			0.1% by weight (w/w)	
4548-53-2	Ponceau SX		3 8, Sup 7	1987			0.1% by weight (w/w)	
4549-40-0	N-Nitrosomethylvinylamine	2B	17, Sup 7	1987			0.1% by weight (w/w)	
4657-93-6	5-Aminoacenaphthene		3 16, Sup 7	1987			0.1% by weight (w/w)	
4680-78-8	Guinea Green B		3 16, Sup 7	1987			0.1% by weight (w/w)	
480-54-6	Retrorsine		3 10, Sup 7	1987			0.1% by weight (w/w)	
480-81-9	Seneciophylline	3	10, Sup 7	1987			0.1% by weight (w/w)	
484-20-8	5-Methoxypsoralen	2A	40, Sup 7	1987	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
492-17-1	2,4'-Diphenyldiamine		3 16, Sup 7	1987			0.1% by weight (w/w)	
492-80-8	Auramine	2B	1, Sup 7, 99, 100F	2012			0.1% by weight (w/w)	
493-52-7	Methyl red		3 8, Sup 7	1987			0.1% by weight (w/w)	
494-03-1	N,N-Bis(2-chloroethyl)-2-naphthylamine (see Chlornaphazine)						0.1% by weight (w/w)	
494-03-1	Chlornaphazine		1 4, Sup 7, 100A	2012			0.1% by weight (w/w)	
494-38-2	Acridine orange		3 16, Sup 7	1987			0.1% by weight (w/w)	
50-00-0	Formaldehyde		1 Sup 7, 62, 88, 100F	2012			0.1% by weight (w/w)	
50-06-6	Phenobarbital	2B	Sup 7, 79	2001			0.1% by weight (w/w)	
50-07-7	Mitomycin C	2B	10, Sup 7	1987			0.1% by weight (w/w)	
50-18-0, 6055-19-2	Cyclophosphamide		1 26, Sup 7, 100A	2012			0.1% by weight (w/w)	
50-29-3	DDT (4,4'-dichlorodiphenyltrichloroethane)	2A	Sup 7, 53, 113	2018			0.1% by weight (w/w)	
50-32-8	Benzo[a]pyrene		1 Sup 7, 92, 100F	2012	NB Overall evaluation upgraded to Group 1 based on mechanistic and other relevant data		0.1% by weight (w/w)	
50-33-9	Phenylbutazone		3 13, Sup 7	1987			0.1% by weight (w/w)	
50-41-9	Clomiphene citrate		3 21, Sup 7	1987			0.1% by weight (w/w)	
50-44-2	6-Mercaptopurine		3 26, Sup 7	1987			0.1% by weight (w/w)	
50-55-5	Reserpine		3 24, Sup 7	1987			0.1% by weight (w/w)	
50-76-0	Actinomycin D		3 10, Sup 7	1987			0.1% by weight (w/w)	
501-30-4	Kojic acid	3		79	2001		0.1% by weight (w/w)	
505-60-2	Mustard gas (see Sulfur mustard)						0.1% by weight (w/w)	
505-60-2	Sulfur mustard		1 9, Sup 7, 100F	2012			0.1% by weight (w/w)	
509-14-8	Tetranitromethane	2B		65	1996		0.1% by weight (w/w)	
50926-11-9	Indium tin oxide	2B		118	2018 online		0.1% by weight (w/w)	
51-02-5	Pronetolol hydrochloride		3 13, Sup 7	1987			0.1% by weight (w/w)	
51-03-6	Piperonyl butoxide		3 30, Sup 7	1987			0.1% by weight (w/w)	
51-18-3	2,4,6-Tris(1-aziridinyl)-s-triazine		3 9, Sup 7	1987			0.1% by weight (w/w)	
51-21-8	5-Fluorouracil		3 26, Sup 7	1987			0.1% by weight (w/w)	
51-52-5	Propylthiouracil	2B	Sup 7, 79	2001			0.1% by weight (w/w)	
51-75-2	Nitrogen mustard	2A	9, Sup 7	1987			0.1% by weight (w/w)	
51-79-6	Ethyl carbamate (Urethane)	2A	7, Sup 7, 96	2010			0.1% by weight (w/w)	
510-15-6	Chlorobenzilate		3 30, Sup 7	1987			0.1% by weight (w/w)	
51264-14-3	Amsacrine	2B		76	2000		0.1% by weight (w/w)	
513-37-1	1-Chloro-2-methylpropene	2B		63	1995		0.1% by weight (w/w)	
5131-60-2	4-Chloro-meta-phenylenediamine		3 27, Sup 7	1987			0.1% by weight (w/w)	
5141-20-8	Light Green SF		3 16, Sup 7	1987			0.1% by weight (w/w)	
51481-61-9	Cimetidine	3		50	1990		0.1% by weight (w/w)	
5160-02-1	D & C Red No. 9		3 Sup 7, 57	1993			0.1% by weight (w/w)	
51630-58-1	Fenvalerate		3	53	1991		0.1% by weight (w/w)	
518-75-2	Citric acid		3 40, Sup 7	1987			0.1% by weight (w/w)	
52-01-7	Spirolactone		3 Sup 7, 79	2001			0.1% by weight (w/w)	
52-24-4	Thiotepa		1 Sup 7, 50, 100A	2012			0.1% by weight (w/w)	
52-46-0	Apholate		3 9, Sup 7	1987			0.1% by weight (w/w)	
52-68-6	Trichlorfon		3 30, Sup 7	1987			0.1% by weight (w/w)	
520-18-3	Kaempferol		3 31, Sup 7	1987			0.1% by weight (w/w)	
523-44-4	CI Acid Orange 20		3 8, Sup 7	1987			0.1% by weight (w/w)	
523-44-4	Orange I (see CI Acid Orange 20)						0.1% by weight (w/w)	
523-50-2	Angelicin plus ultraviolet A radiation		3 40, Sup 7	1987			0.1% by weight (w/w)	
52645-53-1	Permethrin	3		53	1991		0.1% by weight (w/w)	
52918-63-5	Deltamethrin	3		53	1991		0.1% by weight (w/w)	
53-03-2	Prednisone		3 26, Sup 7	1987			0.1% by weight (w/w)	
53-70-3	Dibenz[a,h]anthracene	2A	Sup 7, 92	2010	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
5307-14-2	1,4-Diamino-2-nitrobenzene		3 Sup 7, 57	1993			0.1% by weight (w/w)	
531-76-0	Merphalan	2B	9, Sup 7	1987			0.1% by weight (w/w)	
531-82-8	N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide	2B	7, Sup 7	1987			0.1% by weight (w/w)	
532-82-1	Chrysoidine		3 8, Sup 7	1987			0.1% by weight (w/w)	
536-33-4	Ethionamide		3 13, Sup 7	1987			0.1% by weight (w/w)	
5385-75-1	Dibenzo[a,e]fluoranthene		3 Sup 7, 92	2010			0.1% by weight (w/w)	
53973-98-1	Carrageenan, degraded (Poligeenan)	2B	31, Sup 7	1987			0.1% by weight (w/w)	
53973-98-1	Poligeenan (see Carrageenan, degraded)						0.1% by weight (w/w)	
54-05-7	Chloroquine		3 13, Sup 7	1987			0.1% by weight (w/w)	
54-31-9	Furosemide (Frusemide)	3		50	1990		0.1% by weight (w/w)	
54-85-3	Isonicotinic acid hydrazide (Isoniazid)		3 4, Sup 7	1987			0.1% by weight (w/w)	
540-73-8	1,2-Dimethylhydrazine	2A	4, Sup 7, 71	1999	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
541-73-1	meta-Dichlorobenzene		3	73			0.1% by weight (w/w)	
542-56-3	Isobutyl nitrite	2B		122			0.1% by weight (w/w)	
542-75-6	1,3-Dichloropropene (technical-grade)	2B	41, Sup 7, 71	1999			0.1% by weight (w/w)	
542-78-9	Malonaldehyde		3 36, Sup 7, 71	1999			0.1% by weight (w/w)	
542-88-1, 107-30-2	Bis(chloromethyl)ether; chloromethyl methyl ether (technical-grade)		1 4, Sup 7, 100F	2012			0.1% by weight (w/w)	
5431-33-4	Glycidyl oleate		3 11, Sup 7	1987			0.1% by weight (w/w)	
545-06-2	Trichloroacetonitrile		3 52, 71	1999			0.1% by weight (w/w)	
545-55-1	Tris(1-aziridinyl)phosphine oxide		3 9, Sup 7	1987			0.1% by weight (w/w)	

Agents in the list of World Health Organization International Agency for Research on Cancer (IARC) Group 1, 2A, 2B, 3, or 4.

Source: <https://monographs.iarc.who.int/list-of-classifications>

Date of Last Update to

List: Last updated: 2022-09-07 10:34am (CEST)

CAS No.	Agent	Group	Volume	Year	Additional information	Toxicity Classify	Limit	notes from REC Silicon
5456-28-0	Ethyl selenac		3 12, Sup 7	1987			0.1% by weight (w/w)	
54749-90-5	Chlorozotocin	2A		50 1990	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
548-62-9	Gentian violet (see also Leucogentian violet)	2B		129 2022 online			0.1% by weight (w/w)	
55-18-5	N-Nitrosodiethylamine	2A	17, Sup 7	1987	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
55-98-1	1,4-Butanediol dimethanesulfonate (see Busulfan)						0.1% by weight (w/w)	
55-98-1	Busulfan	1 4, Sup 7, 100A		2012			0.1% by weight (w/w)	
55-98-1	Myleran (see Busulfan)						0.1% by weight (w/w)	
551-74-6	Mannomustine dihydrochloride	3 9, Sup 7		1987			0.1% by weight (w/w)	
5522-43-0	1-Nitropyrene	2A	Sup 7, 46, 105	2014	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
555-84-0	1-[(5-Nitrofurfurylidene)amino]-2-imidazolidinone	2B	7, Sup 7	1987			0.1% by weight (w/w)	
55557-01-2	N-Nitrosoguvacine	3 Sup 7, 85		2004			0.1% by weight (w/w)	
55557-02-3	N-Nitrosoguvacoline	3 Sup 7, 85		2004			0.1% by weight (w/w)	
556-52-5	Glycidol	2A		77 2000	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
5589-96-8	Bromochloroacetic acid	2B		101 2013			0.1% by weight (w/w)	
56-04-2	Methylthiouracil	2B	Sup 7, 79	2001			0.1% by weight (w/w)	
56-23-5	Carbon tetrachloride	2B	20, Sup 7, 71	1999			0.1% by weight (w/w)	
56-25-7	Cantharidin	3 10, Sup 7		1987			0.1% by weight (w/w)	
56-38-2	Parathion	2B	30, Sup 7, 112	2017			0.1% by weight (w/w)	
56-53-1	Diethylstilbestrol	1 21, Sup 7, 100A		2012			0.1% by weight (w/w)	
56-55-3	Benz[a]anthracene	2B	92, Sup 7	2010	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
56-75-7	Chloramphenicol	2A	Sup 7, 50	1990			0.1% by weight (w/w)	
562-10-7	Doxylamine succinate	3		79 2001			0.1% by weight (w/w)	
563-41-7	Semicarbazide hydrochloride	3 12, Sup 7		1987			0.1% by weight (w/w)	
563-47-3	3-Chloro-2-methylpropene, technical grade	2B	63, 115	2018			0.1% by weight (w/w)	
56894-91-8	1,4-Bis(chloromethoxymethyl)benzene	3 15, Sup 7, 71		1999			0.1% by weight (w/w)	
569-61-9	Cl Basic Red 9	2B	57, 99	2010			0.1% by weight (w/w)	
569-64-2, 14426-28-9, 2437-29-8	Malachite green (see also Leucomalachite green)	3		129 2022 online			0.1% by weight (w/w)	
57-06-7	Allyl isothiocyanate	3 73, Sup 7		1999			0.1% by weight (w/w)	
57-14-7	1,1-Dimethylhydrazine	2B	4, Sup 7, 71	1999			0.1% by weight (w/w)	
57-39-6	Tris[2-methyl-1-aziridinyl]phosphine oxide	3 9, Sup 7		1987			0.1% by weight (w/w)	
57-41-0	Phenytol	2B	Sup 7, 66	1996			0.1% by weight (w/w)	
57-57-8	beta-Propiolactone	2B	4, Sup 7, 71	1999			0.1% by weight (w/w)	
57-68-1	Sulfamethazine	3		79 2001	NB Overall evaluation downgraded to Group 3 with supporting evidence from other relevant data		0.1% by weight (w/w)	
57-74-9	Chlordane	2B	Sup 7, 53, 79	2001			0.1% by weight (w/w)	
57-88-5	Cholesterol	3 31, Sup 7		1987			0.1% by weight (w/w)	
57018-52-7	1-tert-Butoxypropan-2-ol	2B	88, 119	2019			0.1% by weight (w/w)	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	1 100F		2012	NB Overall evaluation upgraded to Group 1 based on mechanistic and other relevant data		0.1% by weight (w/w)	
57465-28-8	3,4,5,3',4'-Pentachlorobiphenyl (PCB-126)	1 100F		2012	See Polychlorinated biphenyls, dioxin-like, with a TEF according to WHO		0.1% by weight (w/w)	
57835-92-4	4-Nitropyrene	2B	46, 105	2014			0.1% by weight (w/w)	
58-08-2	Caffeine	3		51 1991			0.1% by weight (w/w)	
58-14-0	Pyrimethamine	3 13, Sup 7		1987			0.1% by weight (w/w)	
58-55-9	Theophylline	3		51 1991			0.1% by weight (w/w)	
58-89-9	Lindane (see also Hexachlorocyclohexanes)	1		113 2018			0.1% by weight (w/w)	
58-93-5	Hydrochlorothiazide	2B	50, 108	2016			0.1% by weight (w/w)	
581-89-5	2-Nitronaphthalene	3		46 1989			0.1% by weight (w/w)	
59-05-2	Methotrexate	3 26, Sup 7		1987			0.1% by weight (w/w)	
59-87-0	Nitrofurantoin (Nitrofurazone)	3		50 1990			0.1% by weight (w/w)	
59-89-2	N-Nitrosomorpholine	2B	17, Sup 7	1987			0.1% by weight (w/w)	
592-62-1	Methylxoxymethanol acetate	2B	10, Sup 7	1987			0.1% by weight (w/w)	
59277-89-3	Aciclovir	3		76 2000			0.1% by weight (w/w)	
593-60-2	Vinyl bromide	2A	39, Sup 7, 71, 97	2008	NB (1) Overall evaluation upgraded to Group 2A based on mechanistic and other relevant data; (2) For practical purposes, vinyl bromide should be considered to act similarly to the human carcinogen vinyl chloride		0.1% by weight (w/w)	
593-70-4	Chlorofluoromethane	3 41, Sup 7, 71		1999			0.1% by weight (w/w)	
59536-65-1	Polybrominated biphenyls	2A	41, Sup 7, 107	2016	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data, namely mechanistic similarity with polychlorinated biphenyls classified in Group 1		0.1% by weight (w/w)	
598-55-0	Methyl carbamate	3 12, Sup 7		1987			0.1% by weight (w/w)	
59820-43-8	HC Yellow No. 4	3		57 1993			0.1% by weight (w/w)	
59865-13-3, 79217-60-0	Ciclosporin (see Cyclosporine)						0.1% by weight (w/w)	
59865-13-3, 79217-60-0	Cyclosporine	1 50, 100A		2012			0.1% by weight (w/w)	
5989-27-5	d-Limonene	3 56, 73		1999	NB Overall evaluation downgraded to Group 3 with supporting evidence from other relevant data		0.1% by weight (w/w)	
599-79-1	Sulfasalazine	2B		108 2016			0.1% by weight (w/w)	
60-09-3	para-Aminoazobenzene	2B	8, Sup 7	1987			0.1% by weight (w/w)	
60-11-7	para-Dimethylaminoazobenzene	2B	8, Sup 7	1987			0.1% by weight (w/w)	
60-35-5	Acetamide	2B	7, Sup 7, 71	1999			0.1% by weight (w/w)	
60-56-0	Methimazole	3		79 2001			0.1% by weight (w/w)	
60-57-1	Dieldrin (see Dieldrin, and aldrin metabolized to dieldrin)						0.1% by weight (w/w)	
60-57-1, 309-00-2	Dieldrin, and aldrin metabolized to dieldrin	2A	5, Sup 7, 117	2019			0.1% by weight (w/w)	
60102-37-6	Petasitenine	3 31, Sup 7		1987			0.1% by weight (w/w)	
60153-49-3	3-(N-Nitrosomethylamino)propionitrile	2B	Sup 7, 85	2004			0.1% by weight (w/w)	
602-60-8	9-Nitroanthracene	3 33, Sup 7		1987			0.1% by weight (w/w)	
602-87-9	5-Nitroacenaphthene	2B	16, Sup 7	1987			0.1% by weight (w/w)	
603-48-5	Leucogentian violet (see also Gentian violet)	3		129 2022 online			0.1% by weight (w/w)	
604-75-1	Oxazepam	2B	Sup 7, 66	1996			0.1% by weight (w/w)	
606-20-2	2,6-Dinitrotoluene	2B		65 1996			0.1% by weight (w/w)	
607-57-8	2-Nitrofluorene	2B	46, 105	2014			0.1% by weight (w/w)	
609-20-1	2,6-Dichloro-para-phenylenediamine	3 39, Sup 7		1987			0.1% by weight (w/w)	
61-57-4	Niridazole	2B	13, Sup 7	1987			0.1% by weight (w/w)	
61-82-5	Amitrole	3 79, Sup 7		2001	NB Overall evaluation downgraded to Group 3 with supporting evidence from other relevant data		0.1% by weight (w/w)	
611-06-3	2,4-Dichloro-1-nitrobenzene	2B		123 2020 online			0.1% by weight (w/w)	
613-35-4	N,N'-Diacetylbenzidine	2B	16, Sup 7	1987			0.1% by weight (w/w)	
615-05-4	2,4-Diaminoanisole	2B	Sup 7, 79	2001			0.1% by weight (w/w)	
615-28-1	ortho-Phenylenediamine dihydrochloride	2B		123 2020 online			0.1% by weight (w/w)	
615-53-2	N-Methyl-N-nitrosoethane	2B	4, Sup 7	1987			0.1% by weight (w/w)	
6164-98-3	Chlordimeform	3 30, Sup 7		1987			0.1% by weight (w/w)	
618-85-9	3,5-Dinitrotoluene	3		65 1996			0.1% by weight (w/w)	
62-44-2	Phenacetin	1 24, Sup 7, 100A		2012	NB Overall evaluation upgraded to Group 1 with supporting evidence from other relevant data		0.1% by weight (w/w)	
62-50-0	Ethyl methanesulfonate	2B	7, Sup 7	1987			0.1% by weight (w/w)	

Agents in the list of World Health Organization International Agency for Research on Cancer (IARC) Group 1, 2A, 2B, 3, or 4.

Source: <https://monographs.iarc.who.int/list-of-classifications>

Date of Last Update to

List: Last updated: 2022-09-07 10:34am (CEST)

CAS No.	Agent	Group	Volume	Year	Additional information	Toxicity Classify	Limit	notes from REC Silicon
62-53-3	Aniline (see also Aniline hydrochloride)	2A	27, Sup 7, 127	2021 online			0.1% by weight (w/w)	
62-55-5	Thioacetamide	2B	7, Sup 7	1987			0.1% by weight (w/w)	
62-56-6	Thiourea	3	Sup 7, 79	2001			0.1% by weight (w/w)	
62-73-7	Dichlorvos	2B	Sup 7, 53	1991			0.1% by weight (w/w)	
62-75-9	N-Nitrosodimethylamine	2A	17, Sup 7	1987	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
621-64-7	N-Nitrosodi-n-propylamine	2B	17, Sup 7	1987			0.1% by weight (w/w)	
62450-06-0	Trp-P-1 (3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole)	2B	31, Sup 7	1987			0.1% by weight (w/w)	
62450-07-1	Trp-P-2 (3-Amino-1-methyl-5H-pyrido[4,3-b]indole)	2B	31, Sup 7	1987			0.1% by weight (w/w)	
627-12-3	n-Propyl carbamate	3	12, Sup 7	1987			0.1% by weight (w/w)	
63-25-2	Carbaryl	3	12, Sup 7	1987			0.1% by weight (w/w)	
63-92-3	Phenoxybenzamine hydrochloride	2B	24, Sup 7	1987			0.1% by weight (w/w)	
630-20-6	1,1,1,2-Tetrachloroethane	2B	41, Sup 7, 71, 106	2014			0.1% by weight (w/w)	
63041-90-7	6-Nitrobenzo[a]pyrene	3	Sup 7, 46	1989			0.1% by weight (w/w)	
631-64-1	Dibromoaacetic acid	2B		101 2013			0.1% by weight (w/w)	
632-99-5	Magenta	2B	Sup 7, 57, 99, 100F	2012			0.1% by weight (w/w)	
6358-53-8	Citrus Red No. 2	2B	8, Sup 7	1987			0.1% by weight (w/w)	
6368-72-5	Sudan Red 7B	3	8, Sup 7	1987			0.1% by weight (w/w)	
637-07-0	Clofibrate	3	Sup 7, 66	1996			0.1% by weight (w/w)	
6373-74-6	CI Acid Orange 3	3		57 1993			0.1% by weight (w/w)	
64-17-5	Ethanol in alcoholic beverages	1	96, 100E	2012			0.1% by weight (w/w)	
64-67-5	Diethyl sulfate	2A	54, 71	1999	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
641-48-5	1,2-Dihydroacanthylene	3		92 2010			0.1% by weight (w/w)	
6416-57-5	Sudan Brown RR	3	8, Sup 7	1987			0.1% by weight (w/w)	
64436-13-1	Arsenobetaine and other organic arsenic compounds that are not metabolized in humans	3	100C	2012			0.1% by weight (w/w)	
6459-94-5	CI Acid Red 114	2B		57 1993			0.1% by weight (w/w)	
64742-93-4	Bitumens, occupational exposure to oxidized bitumens and their emissions during roofing	2A		103 2013			0.1% by weight (w/w)	
65271-80-9	Mitoxantrone	2B		76 2000			0.1% by weight (w/w)	
65996-93-2	Coal-tar pitch	1	35, Sup 7, 100F	2012			0.1% by weight (w/w)	
66-27-3	Methyl methanesulfonate	2A	7, Sup 7, 71	1999	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
66-75-1	Uracil mustard	2B	9, Sup 7	1987			0.1% by weight (w/w)	
66733-21-9	Erlonite	1	42, Sup 7, 100C	2012			0.1% by weight (w/w)	
67-20-9	Nitrofurantoin	3		50 1990			0.1% by weight (w/w)	
67-45-8	Furazolidone	3	31, Sup 7	1987			0.1% by weight (w/w)	
67-63-0	Isopropyl alcohol	3	15, Sup 7, 71	1999			0.1% by weight (w/w)	
67-66-3	Chloroform	2B	Sup 7, 73	1999			0.1% by weight (w/w)	
67-72-1	Hexachloroethane	2B		73 1999			0.1% by weight (w/w)	
67730-10-3	Glu-P-2 (2-Aminodipyrido[1,2-a:3',2'-d]imidazole)	2B	40, Sup 7	1987			0.1% by weight (w/w)	
67730-11-4	Glu-P-1 (2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole)	2B	40, Sup 7	1987			0.1% by weight (w/w)	
68-12-2	N,N-Dimethylformamide	2A	47, 71, 115	2018			0.1% by weight (w/w)	
68-76-8	Tris(aziridinyl)-para-benzoquinone (Triaziquone)	3	9, Sup 7	1987			0.1% by weight (w/w)	
680-31-9	Hexamethylphosphoramide	2B	15, Sup 7, 71	1999			0.1% by weight (w/w)	
68006-83-7	MeA-alpha-C (2-Amino-3-methyl-9H-pyrido[2,3-b]indole)	2B	40, Sup 7	1987			0.1% by weight (w/w)	
68308-34-9	Shale oils	1	35, Sup 7, 100F	2012			0.1% by weight (w/w)	
684-93-5	N-Methyl-N-nitrosourea	2A	17, Sup 7	1987	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
68603-42-9	Coconut oil diethanolamine condensate	2B		101 2013			0.1% by weight (w/w)	
6870-67-3	Jacobine	3	10, Sup 7	1987			0.1% by weight (w/w)	
69-53-4	Ampicillin	3		50 1990			0.1% by weight (w/w)	
693-98-1	2-Methylimidazole	2B		101 2013			0.1% by weight (w/w)	
69655-05-6	Didanosine	3		76 2000			0.1% by weight (w/w)	
70-25-7	N-Methyl-N'-nitro-N-nitrosoguanidine (MNNG)	2A	4, Sup 7	1987	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
70-30-4	Hexachlorophene	3	20, Sup 7	1987			0.1% by weight (w/w)	
7099-43-6	5,6-Cyclopenteno-1,2-benzanthracene	3		92 2010			0.1% by weight (w/w)	
71-43-2	Benzene	1	29, Sup 7, 100F, 120	2018			0.1% by weight (w/w)	
71-55-6	1,1,1-Trichloroethane	2A	20, Sup 7, 71, 130	2022 online			0.1% by weight (w/w)	
71-58-9	Medroxyprogesterone acetate	2B	21, Sup 7	1987			0.1% by weight (w/w)	
712-68-5	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	2B	7, Sup 7	1987			0.1% by weight (w/w)	
71267-22-6	N'-Nitrosoanatabine (NAT)	3	37, Sup 7, 89	2007			0.1% by weight (w/w)	
72-20-8	Endrin	3	5, Sup 7	1987			0.1% by weight (w/w)	
72-43-5	Methoxychlor	3	20, Sup 7	1987			0.1% by weight (w/w)	
72-57-1	Trypan blue	2B	8, Sup 7	1987			0.1% by weight (w/w)	
7220-79-3	Methylene blue	3		108 2016			0.1% by weight (w/w)	
723-46-6	Sulfamethoxazole	3	Sup 7, 79	2001			0.1% by weight (w/w)	
73459-03-7	5-Methylangelicin plus ultraviolet A radiation	3	Sup 7	1987			0.1% by weight (w/w)	
74-83-9	Methyl bromide	3	41, Sup 7, 71	1999			0.1% by weight (w/w)	
74-85-1	Ethylene	3	Sup 7, 60	1994			0.1% by weight (w/w)	
74-87-3	Methyl chloride	3	41, Sup 7, 71	1999			0.1% by weight (w/w)	
74-88-4	Methyl iodide	3	41, Sup 7, 71	1999			0.1% by weight (w/w)	
74-96-4	Bromoethane	3	52, 71	1999			0.1% by weight (w/w)	
7439-92-1	Lead	2B	23, Sup 7	1987			0.1% by weight (w/w)	
7439-97-6	Mercury and inorganic mercury compounds	3		58 1993			0.1% by weight (w/w)	
7440-02-0	Nickel, metallic	2B	Sup 7, 49	1990			0.1% by weight (w/w)	
7440-07-5	Plutonium	1	78, 100D	2012			0.1% by weight (w/w)	
7440-29-1	Thorium-232 and its decay products	1	78, 100D	2012			0.1% by weight (w/w)	
7440-38-2	Arsenic and inorganic arsenic compounds	1	23, Sup 7, 100C	2012			0.1% by weight (w/w)	
7440-41-7	Beryllium and beryllium compounds	1	Sup 7, 58, 100C	2012			0.1% by weight (w/w)	
7440-43-9	Cadmium and cadmium compounds	1	58, 100C	2012			0.1% by weight (w/w)	
7440-47-3	Chromium, metallic	3	Sup 7, 49	1990			0.1% by weight (w/w)	
7440-48-4	Cobalt metal (without tungsten carbide or other metal alloys)	2A	52, 86, 131	In prep.			0.1% by weight (w/w)	
7440-48-4, 12070-12-1	Cobalt metal with tungsten carbide	2A		86 2006			0.1% by weight (w/w)	
7446-09-5	Sulfur dioxide	3		54 1992			0.1% by weight (w/w)	
7460-84-6	Glycidyl stearate	3	11, Sup 7	1987			0.1% by weight (w/w)	
7481-89-2	Zalcitabine	2B		76 2000			0.1% by weight (w/w)	
7496-02-8	6-Nitrochrysene	2A	Sup 7, 46, 105	2014	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
75-00-3	Chloroethane	3	52, 71	1999			0.1% by weight (w/w)	
75-01-4	Vinyl chloride	1	Sup 7, 97, 100F	2012			0.1% by weight (w/w)	
75-02-5	Vinyl fluoride	2A	Sup 7, 63, 97	2008	NB (1) Overall evaluation upgraded to Group 2A based on mechanistic and other relevant data; (2) For practical purposes, vinyl fluoride should be considered to act similarly to the human carcinogen vinyl chloride		0.1% by weight (w/w)	
75-07-0	Acetaldehyde	2B	36, Sup 7, 71	1999			0.1% by weight (w/w)	
75-07-0	Acetaldehyde associated with consumption of alcoholic beverages	1	100E	2012			0.1% by weight (w/w)	
75-09-2	Dichloromethane (Methylene chloride)	2A	Sup 7, 71, 110	2017			0.1% by weight (w/w)	
75-21-8	Ethylene oxide	1	Sup 7, 60, 97, 100F	2012	NB Overall evaluation upgraded to Group 1 based on mechanistic and other relevant data		0.1% by weight (w/w)	
75-25-2	Bromoform	3	52, 71	1999			0.1% by weight (w/w)	
75-27-4	Bromodichloromethane	2B	52, 71	1999			0.1% by weight (w/w)	
75-35-4	Vinylidene chloride	2B	39, Sup 7, 71, 119	2019			0.1% by weight (w/w)	
75-38-7	Vinylidene fluoride	3	39, Sup 7, 71	1999			0.1% by weight (w/w)	
75-45-6	Chlorodifluoromethane	3	41, Sup 7, 71	1999			0.1% by weight (w/w)	
75-52-5	Nitromethane	2B		77 2000			0.1% by weight (w/w)	

Agents in the list of World Health Organization International Agency for Research on Cancer (IARC) Group 1, 2A, 2B, 3, or 4.

Source: <https://monographs.iarc.who.int/list-of-classifications>

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CAS No.	Agent	Group	Volume	Year	Additional information	Toxicity Classify	Limit	notes from REC Silicon
75-55-8	2-Methylaziridine (Propyleneimine)	2B	9, Sup 7, 71	1999			0.1% by weight (w/w)	
75-56-9	Propylene oxide	2B	Sup 7, 60	1994			0.1% by weight (w/w)	
75-60-5	Dimethylarsinic acid	2B	100C	2012			0.1% by weight (w/w)	
75-87-6	Chloral	2A	63, 84, 106	2014			0.1% by weight (w/w)	
75-88-7	2-Chloro-1,1,1-trifluoroethane	3	41, Sup 7, 71	1999			0.1% by weight (w/w)	
7519-36-0	N-Nitrosopropylene	3	17, Sup 7	1987			0.1% by weight (w/w)	
75321-20-9	1,3-Dinitropropylene	2B	46, 105	2014			0.1% by weight (w/w)	
7572-29-4	Dichloroacetylene	3	39, Sup 7, 71	1999			0.1% by weight (w/w)	
759-73-9	N-Ethyl-N-nitrosourea	2A	17, Sup 7	1987	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
76-01-7	Pentachloroethane	3	41, Sup 7, 71	1999			0.1% by weight (w/w)	
76-03-9	Trichloroacetic acid	2B	63, 84, 106	2014			0.1% by weight (w/w)	
76-44-8	Heptachlor	2B	Sup 7, 53, 79	2001			0.1% by weight (w/w)	
76180-96-6	IQ (2-Amino-3-methylimidazo[4,5-f]quinoline)	2A	Sup 7, 56	1993	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
7631-86-9	Silica, amorphous	3	Sup 7, 68	1997			0.1% by weight (w/w)	
7647-01-0	Hydrochloric acid	3		54	1992		0.1% by weight (w/w)	
765-34-4	Glycidaldehyde	2B	11, Sup 7, 71	1999			0.1% by weight (w/w)	
7664-93-9	Strong-inorganic-acid mists containing sulfuric acid (see Acid mists)	2B		76	2000		0.1% by weight (w/w)	
77-09-8	Phenolphthalein	2B				NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data	0.1% by weight (w/w)	
77-78-1	Dimethyl sulfate	2A	4, Sup 7, 71	1999			0.1% by weight (w/w)	
77094-11-2	MeIQ (2-Amino-3,4-dimethylimidazo[4,5-f]quinoline)	2B	Sup 7, 56	1993			0.1% by weight (w/w)	
7722-84-1	Hydrogen peroxide	3	36, Sup 7, 71	1999			0.1% by weight (w/w)	
77439-76-0	3-Chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone	2B		84	2004		0.1% by weight (w/w)	
77500-04-0	MeIQx (2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline)	2B	Sup 7, 56	1993			0.1% by weight (w/w)	
7758-01-2	Potassium bromate	2B	Sup 7, 73	1999			0.1% by weight (w/w)	
7758-19-2	Sodium chlorite	3		52	1991		0.1% by weight (w/w)	
7782-49-2	Selenium and selenium compounds	3	9, Sup 7	1987			0.1% by weight (w/w)	
78-59-1	Isophorone	2B		130	2022 online		0.1% by weight (w/w)	
78-79-5	Isoprene	2B	60, 71	1999			0.1% by weight (w/w)	
78-87-5	1,2-Dichloropropane	1	41, Sup 7, 71, 110	2017			0.1% by weight (w/w)	
78-98-8	Methylglyoxal	3		51	1991		0.1% by weight (w/w)	
789-07-1	2-Nitropropylene	3		46	1989		0.1% by weight (w/w)	
79-00-5	1,1,2-Trichloroethane	3	52, 71	1999			0.1% by weight (w/w)	
79-01-6	Trichloroethylene	1	Sup 7, 63, 106	2014			0.1% by weight (w/w)	
79-06-1	Acrylamide	2A	60, Sup 7	1994	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
79-10-7	Acrylic acid	3	19, Sup 7, 71	1999			0.1% by weight (w/w)	
79-34-5	1,1,2,2-Tetrachloroethane	2B	20, Sup 7, 71, 106	2014			0.1% by weight (w/w)	
79-43-6	Dichloroacetic acid	2B	63, 84, 106	2014			0.1% by weight (w/w)	
79-44-7	Dimethylcarbamoyl chloride	2A	12, Sup 7, 71	1999	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data		0.1% by weight (w/w)	
79-46-9	2-Nitropropane	2B	29, Sup 7, 71	1999			0.1% by weight (w/w)	
79-94-7	Tetrabromobisphenol A	2A		115	2018	NB Overall evaluation upgraded to Group 2A with supporting evidence from mechanistic data	0.1% by weight (w/w)	
794-93-4	Dihydroxymethylfurfural (see also Panfuran S)	3	24, Sup 7	1987			0.1% by weight (w/w)	
794-93-4	Panfuran S (containing dihydroxymethylfurfural)	2B	24, Sup 7	1987			0.1% by weight (w/w)	
80-08-0	Dapsone	3	24, Sup 7	1987			0.1% by weight (w/w)	
80-62-6	Methyl methacrylate	3	Sup 7, 60	1994			0.1% by weight (w/w)	
800-24-8	Aziridinyl benzoquinone	3	9, Sup 7	1987			0.1% by weight (w/w)	
8001-35-2	Toxaphene (Polychlorinated camphenes)	2B	Sup 7, 79	2001			0.1% by weight (w/w)	
8001-50-1	Terpene polychlorinated (Strobane*)	3	5, Sup 7	1987			0.1% by weight (w/w)	
8001-58-9	Cresosotes	2A	Sup 7, 92	2010			0.1% by weight (w/w)	
8002-05-9	Crude oil	3		45	1989		0.1% by weight (w/w)	
8007-45-2	Coal tars (see Coal-tar distillation)	3	35, Sup 7	1987			0.1% by weight (w/w)	
8007-45-2	Coal-tar distillation	1	92, 100F	2012			0.1% by weight (w/w)	
8018-07-3	Acridinium chloride	3	13, Sup 7	1987			0.1% by weight (w/w)	
804-36-4	Nitrovin	3	31, Sup 7	1987			0.1% by weight (w/w)	
8047-67-4	Saccharated iron oxide	3	2, Sup 7	1987			0.1% by weight (w/w)	
8052-42-4	Bitumens, extracts of steam-refined and air-refined; steam-refined, cracking-residue and air-refined bitumens (see Bitumens, occupational exposures)		35, Sup 7	1987			0.1% by weight (w/w)	
8052-42-4, 64741-56-6	Bitumens, occupational exposure to straight-run bitumens and their emissions during road paving	2B		103	2013		0.1% by weight (w/w)	
81-07-2	Saccharin and its salts	3	Sup 7, 73	1999	NB Overall evaluation downgraded to Group 3 with supporting evidence from other relevant data		0.1% by weight (w/w)	
81-15-2	Musk xylene	3		65	1996		0.1% by weight (w/w)	
81-49-2	1-Amino-2,4-dibromoanthraquinone	2B		101	2013		0.1% by weight (w/w)	
81-88-9	Rhodamine B	3	16, Sup 7	1987			0.1% by weight (w/w)	
817-09-4	Trichloromethine (Trimustine hydrochloride)	2B	Sup 7, 50	1990			0.1% by weight (w/w)	
82-28-0	1-Amino-2-methylantraquinone	3	27, Sup 7	1987			0.1% by weight (w/w)	
82-68-8	Quinazoline (Pentachloronitrobenzene)	3	5, Sup 7	1987			0.1% by weight (w/w)	
822-36-6	4-Methylimidazole	2B		101	2013		0.1% by weight (w/w)	
82413-20-5	Droloxifen	3		66	1996		0.1% by weight (w/w)	
828-00-2	Dimethoxane	3	15, Sup 7	1987			0.1% by weight (w/w)	
83-32-9	Acenaphthene	3		92	2010		0.1% by weight (w/w)	
83-63-6	Diacetylaminoazotoluene	3	8, Sup 7	1987			0.1% by weight (w/w)	
83-66-9	Musk ambrette	3		65	1996		0.1% by weight (w/w)	
83-67-0	Theobromine	3		51	1991		0.1% by weight (w/w)	
832-69-9	1-Methylphenanthrene	3	Sup 7, 92	2010			0.1% by weight (w/w)	
83463-62-1	Bromochloroacetonitrile	3	52, 71	1999			0.1% by weight (w/w)	
838-88-0	4,4'-Methylene bis(2-methylaniline)	2B	4, Sup 7	1987			0.1% by weight (w/w)	
84-65-1	Anthraquinone	2B		101	2013		0.1% by weight (w/w)	
842-07-9	Sudan I	3	8, Sup 7	1987			0.1% by weight (w/w)	
846-50-4	Temazepam	3		66	1996		0.1% by weight (w/w)	
85-01-8	Phenanthrene	3	Sup 7, 92	2010			0.1% by weight (w/w)	
85-68-7	Butyl benzyl phthalate	3	Sup 7, 73	1999			0.1% by weight (w/w)	
85-83-6	Scarlet Red	3	8, Sup 7	1987			0.1% by weight (w/w)	
85-84-7	Yellow AB	3	8, Sup 7	1987			0.1% by weight (w/w)	
85-86-9	Sudan III	3	8, Sup 7	1987			0.1% by weight (w/w)	
85502-23-4	3-(N-Nitrosomethylamino)propionaldehyde	3	Sup 7, 85	2004			0.1% by weight (w/w)	
85878-62-2	Pyrido[3,4-c]psoralen	3	40, Sup 7	1987			0.1% by weight (w/w)	
85878-63-3	7-Methylpyrido[3,4-c]psoralen	3	40, Sup 7	1987			0.1% by weight (w/w)	
86-30-6	N-Nitrosodiphenylamine	3	27, Sup 7	1987			0.1% by weight (w/w)	
86-54-4	Hydralazine	3	24, Sup 7	1987			0.1% by weight (w/w)	
86-57-7	1-Nitronaphthalene	3		46	1989		0.1% by weight (w/w)	
86-73-7	Fluorene	3	Sup 7, 92	2010			0.1% by weight (w/w)	
86-74-8	Carbazole	2B	32, Sup 7, 71, 103	2013			0.1% by weight (w/w)	
86-88-4	1-Naphthylthiourea (ANTU)	3	30, Sup 7	1987			0.1% by weight (w/w)	
868-85-9	Dimethyl hydrogen phosphite	3	48, 71	1999			0.1% by weight (w/w)	
87-29-6	Cinnamyl anthranilate	3	Sup 7, 77	2000			0.1% by weight (w/w)	
87-62-7	2,6-Dimethylaniline (2,6-Xylydine)	2B		57	1993		0.1% by weight (w/w)	
87-68-3	Hexachlorobutadiene	3		73	1999		0.1% by weight (w/w)	
87-86-5	Pentachlorophenol (see also Polychlorophenols)	1	53, 71, 117	2019			0.1% by weight (w/w)	
87625-62-5	Ptaquiloside	3	40, Sup 7	1987			0.1% by weight (w/w)	
88-05-1	2,4,6-Trimethylaniline	3	27, Sup 7	1987			0.1% by weight (w/w)	
88-06-2	2,4,6-Trichlorophenol (see also Polychlorophenols)	2B		117	2019		0.1% by weight (w/w)	

Agents in the list of World Health Organization International Agency for Research on Cancer (IARC) Group 1, 2A, 2B, 3, or 4.

Source: <https://monographs.iarc.who.int/list-of-classifications>

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CAS No.	Agent	Group	Volume	Year	Additional information	Toxicity Classify	Limit	notes from REC Silicon
88-12-0	N-Vinyl-2-pyrrolidone		3 19, Sup 7, 71	1999			0.1% by weight (w/w)	
88-72-2	2-Nitrotoluene	2A		101	2013	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data	0.1% by weight (w/w)	
88-73-3	2-Chloronitrobenzene	2B	65, 123	2020 online			0.1% by weight (w/w)	
88-73-3, 121-73-3, 100-00-5	Chloronitrobenzenes (see 2-Chloronitrobenzene, 3-Chloronitrobenzene, 4-Chloronitrobenzene)						0.1% by weight (w/w)	
89-61-2	1,4-Dichloro-2-nitrobenzene	2B	65, 123	2020 online			0.1% by weight (w/w)	
89-82-7	Pulegone	2B		108	2016		0.1% by weight (w/w)	
892-21-7	3-Nitrofluoranthene	3	33, Sup 7		1987		0.1% by weight (w/w)	
89778-26-7	Toremifene	3		66	1996		0.1% by weight (w/w)	
90-04-0	ortho-Anisidine (see also ortho-Anisidine hydrochloride)	2A	Sup 7, 73, 127		2021 online		0.1% by weight (w/w)	
90-43-7	ortho-Phenylphenol	3		73	1999		0.1% by weight (w/w)	
90-65-3	Penicillic acid	3	10, Sup 7		1987		0.1% by weight (w/w)	
90-94-8	Michler's ketone [4,4'-Bis(dimethylamino)-benzophenone]	2B		99	2010		0.1% by weight (w/w)	
9000-07-1	Carrageenan, native	3	31, Sup 7		1987		0.1% by weight (w/w)	
9000-38-8	Kava extract	2B		108	2016		0.1% by weight (w/w)	
9002-84-0	Polytetrafluoroethylene	3	19, Sup 7		1987		0.1% by weight (w/w)	
9002-86-2	Polyvinyl chloride	3	19, Sup 7		1987		0.1% by weight (w/w)	
9002-88-4	Polyethylene	3	19, Sup 7		1987		0.1% by weight (w/w)	
9002-89-5	Polyvinyl alcohol	3	19, Sup 7		1987		0.1% by weight (w/w)	
9003-01-4	Polyacrylic acid	3	19, Sup 7		1987		0.1% by weight (w/w)	
9003-07-0	Polypropylene	3	19, Sup 7		1987		0.1% by weight (w/w)	
9003-20-7	Polyvinyl acetate	3	19, Sup 7		1987		0.1% by weight (w/w)	
9003-22-9	Vinyl chloride-vinyl acetate copolymers	3	19, Sup 7		1987		0.1% by weight (w/w)	
9003-39-8	Polyvinyl pyrrolidone	3	19, Sup 7, 71		1987		0.1% by weight (w/w)	
9003-53-6	Polystyrene	3	19, Sup 7		1987		0.1% by weight (w/w)	
9003-54-7	Styrene-acrylonitrile copolymers	3	19, Sup 7		1987		0.1% by weight (w/w)	
9003-55-8	Styrene-butadiene copolymers	3	19, Sup 7		1987		0.1% by weight (w/w)	
9004-51-7	Iron-dextrin complex	3	2, Sup 7		1987		0.1% by weight (w/w)	
9004-66-4	Iron-dextran complex	2B	2, Sup 7		1987		0.1% by weight (w/w)	
90045-36-6	Ginkgo biloba extract	2B		108	2016		0.1% by weight (w/w)	
9009-54-5	Polyurethane foams	3	19, Sup 7		1987		0.1% by weight (w/w)	
9010-98-4	Polychloroprene	3	19, Sup 7		1987		0.1% by weight (w/w)	
9011-06-7	Vinylidene chloride-vinyl chloride copolymers	3	19, Sup 7		1987		0.1% by weight (w/w)	
9011-14-7	Polymethyl methacrylate	3	19, Sup 7		1987		0.1% by weight (w/w)	
9016-87-9	Polymethylene polyphenyl isocyanate	3	19, Sup 7		1987		0.1% by weight (w/w)	
90370-29-9	4,4',6'-Trimethylangelicin plus ultraviolet A radiation	3	Sup 7		1987		0.1% by weight (w/w)	
91-20-3	Naphthalene	2B		82	2002		0.1% by weight (w/w)	
91-22-5	Quinoline	2B		121	2019		0.1% by weight (w/w)	
91-23-6	ortho-Nitroanisole	2A	65, 127		2021 online	NB Originally evaluated as 2-Nitroanisole	0.1% by weight (w/w)	
91-59-8	2-Naphthylamine	1	4, Sup 7, 99, 100F		2012		0.1% by weight (w/w)	
91-64-5	Coumarin	3	Sup 7, 77		2000		0.1% by weight (w/w)	
91-93-0	3,3'-Dimethoxybenzidine-4,4'-diisocyanate	3	39, Sup 7		1987		0.1% by weight (w/w)	
91-94-1	3,3'-Dichlorobenzidine	2B	29, Sup 7		1987		0.1% by weight (w/w)	
915-67-3	Amaranth	3	8, Sup 7		1987		0.1% by weight (w/w)	
92-67-1	4-Aminobiphenyl	1	1, Sup 7, 99, 100F		2012		0.1% by weight (w/w)	
92-87-5	Benzidine	1	29, Sup 7, 99, 100F		2012		0.1% by weight (w/w)	
92-93-3	4-Nitrobiphenyl	3	4, Sup 7		1987		0.1% by weight (w/w)	
924-16-3	N-Nitrosodi-n-butylamine	2B	17, Sup 7		1987		0.1% by weight (w/w)	
924-42-5	N-Methylolacrylamide	2B	60, 130		2022 online		0.1% by weight (w/w)	
93-15-2	Methyleugenol	2B		101	2013		0.1% by weight (w/w)	
930-55-2	N-Nitrosopyrrolidine	2B	17, Sup 7		1987		0.1% by weight (w/w)	
94-36-0	Benzoyl peroxide	3	36, Sup 7, 71		1999		0.1% by weight (w/w)	
94-58-6	Dihydrosafrole	2B	10, Sup 7		1987		0.1% by weight (w/w)	
94-59-7	Safrole	2B	10, Sup 7		1987		0.1% by weight (w/w)	
94-75-7	2,4-D (2,4-dichlorophenoxyacetic acid) (See also Chlorophenoxy herbicides)	2B		113	2018		0.1% by weight (w/w)	
95-06-7	Sulfalate	2B	30, Sup 7		1987		0.1% by weight (w/w)	
95-50-1	ortho-Dichlorobenzene	3	Sup 7, 73		1999		0.1% by weight (w/w)	
95-53-4	ortho-Toluidine	1	Sup 7, 77, 99, 100F		2012		0.1% by weight (w/w)	
95-54-5	ortho-Phenylenediamine	2B		123	2020 online		0.1% by weight (w/w)	
95-68-1	2,4-Xyldine	3	16, Sup 7		1987		0.1% by weight (w/w)	
95-69-2	4-Chloro-ortho-toluidine	2A	77, 99		2010		0.1% by weight (w/w)	
95-70-5	2,5-Diaminotoluene	3	16, Sup 7		1987		0.1% by weight (w/w)	
95-78-3	2,5-Xyldine	3	16, Sup 7		1987		0.1% by weight (w/w)	
95-79-4	5-Chloro-ortho-toluidine	3		77	2010		0.1% by weight (w/w)	
95-80-7	2,4-Diaminotoluene	2B	16, Sup 7		1987		0.1% by weight (w/w)	
95-83-0	4-Chloro-ortho-phenylenediamine	2B	27, Sup 7		1987		0.1% by weight (w/w)	
95-85-2	2-Amino-4-chlorophenol	2B		123	2020 online		0.1% by weight (w/w)	
96-09-3	Styrene-7,8 oxide	2A	Sup 7, 60, 121		2019	NB Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data	0.1% by weight (w/w)	
96-12-8	1,2-Dibromo-3-chloropropane	2B	20, Sup 7, 71		1999		0.1% by weight (w/w)	
96-13-9	2,3-Dibromopropan-1-ol	2B		77	2000		0.1% by weight (w/w)	
96-18-4	1,2,3-Trichloropropane	2A		63	1995		0.1% by weight (w/w)	
96-23-1	1,3-Dichloro-2-propanol	2B		101	2013		0.1% by weight (w/w)	
96-24-2	3-Monochloro-1,2-propanediol	2B		101	2013		0.1% by weight (w/w)	
96-33-3	Methyl acrylate	2B	39, Sup 7, 71, 122		2019		0.1% by weight (w/w)	
96-45-7	Ethylenethiourea	3	Sup 7, 79		2001	NB Overall evaluation downgraded to Group 3 with supporting evidence from other relevant data	0.1% by weight (w/w)	
96-48-0	gamma-Butyrolactone	3	11, Sup 7, 71		1999		0.1% by weight (w/w)	
97-53-0	Eugenol	3	36, Sup 7		1987		0.1% by weight (w/w)	
97-56-3	ortho-Aminoazotoluene	2B	8, Sup 7		1987		0.1% by weight (w/w)	
97-77-8	Disulfiram	3	12, Sup 7		1987		0.1% by weight (w/w)	
98-00-0	Furfuryl alcohol	2B		119	2019		0.1% by weight (w/w)	
98-01-1	Furfural	3		63	1995		0.1% by weight (w/w)	
98-56-6	4-Chlorobenzotrifluoride	2B		125	2020 online		0.1% by weight (w/w)	
98-82-8	Cumene	2B		101	2013		0.1% by weight (w/w)	
98-83-9	alpha-Methylstyrene	2B		101	2013		0.1% by weight (w/w)	
98-87-3, 98-07-7, 100-44-7, 98-88-4	alpha-Chlorinated toluenes (benzal chloride, benzotrichloride, benzyl chloride) and benzoyl chloride (combined exposures)	2A	29, Sup 7, 71		1999		0.1% by weight (w/w)	
98-95-3	Nitrobenzene	2B		65	1996		0.1% by weight (w/w)	
989-38-8	Rhodamine 6G	3	16, Sup 7		1987		0.1% by weight (w/w)	
99-08-1, 99-99-0	Nitrotoluenes	3		65	1996		0.1% by weight (w/w)	
99-55-8	5-Nitro-ortho-toluidine	3		48	1990		0.1% by weight (w/w)	
99-56-9	1,2-Diamino-4-nitrobenzene	3	16, Sup 7		1987		0.1% by weight (w/w)	
99-57-0	2-Amino-4-nitrophenol	3		57	1993		0.1% by weight (w/w)	
99-59-2	5-Nitro-ortho-anisidine	3	27, Sup 7		1987		0.1% by weight (w/w)	
99-80-9	N-Methyl-N,4-dinitroaniline	3	1, Sup 7		1987		0.1% by weight (w/w)	
99-97-8	N,N-Dimethyl-p-toluidine	2B		115	2018		0.1% by weight (w/w)	

Source: A-RMS-05-03-103

Date of Last Update to List:

11/27/2022

空氣污染突發事故緊急應變措施計畫及警告通知作業辦法」管制物質substances for air pollution emergency response rule						
#	CAS No.	中文名稱	Chemical	Limit	notes from REC Silicon	
1	614/7783	硫化氫	Hydrogen sulfide	0.1% by weight (w/w)		
2	74-93-1	甲硫醇	Methyl mercaptan	0.1% by weight (w/w)		
3	75-08-1	乙硫醇	Ethyl mercaptan	0.1% by weight (w/w)		
4	74-89-5	甲胺	Methylamine	0.1% by weight (w/w)		
5	463-58-1	氧硫化碳 ／ 硫化碳	Carbonyl sulfide	0.1% by weight (w/w)		
6	7647-01-0	鹽酸／ 氯化氫	Hydrogen chloride	0.1% by weight (w/w)	REC Products may contain over the limit of this item	
7	140-88-5	丙烯酸乙 酯	Ethyl acrylate	0.1% by weight (w/w)		
8	915/7446	二氧化硫	Sulfur dioxide	0.1% by weight (w/w)		
9	106-88-7	1,2- 環氧丁烷	1,2-Butylene oxide	0.1% by weight (w/w)		
10	123-86-4	乙酸丁酯	Butyl acetate	0.1% by weight (w/w)		
11	115-10-6	二甲醚	Dimethyl ether	0.1% by weight (w/w)		
12	7664-39-3	氫氟酸	Hydrogen fluoride	0.1% by weight (w/w)		
13	98-83-9	α 甲基苯乙烯	α-Methyl styrene	0.1% by weight (w/w)		
14	107-05-1	氯丙稀	Allyl chloride	0.1% by weight (w/w)		
15	80-62-6	甲基丙烯酸 甲酯	Methyl methacrylate	0.1% by weight (w/w)		
16	123-73-9	反巴豆醛	Crotonaldehyde	0.1% by weight (w/w)		
17	71-36-3	丁醇	1-Butanol	0.1% by weight (w/w)		
18	108-88-3	甲苯	Toluene	0.1% by weight (w/w)		
19	141-78-6	乙酸乙酯	Ethyl acetate	0.1% by weight (w/w)		
20	74-83-9	甲基溴	Methyl bromide	0.1% by weight (w/w)		
21	57-14-7	1,1- 二甲基聯 胺	1,1-Dimethylhydrazine	0.1% by weight (w/w)		
22	75-56-9	環氧丙烷	Propylene oxide	0.1% by weight (w/w)		
23	107-31-3	甲酸甲酯	Methyl formate	0.1% by weight (w/w)		
24	630-08-0	一氧化碳	Carbon monoxide	0.1% by weight (w/w)		
25	75-18-3	二甲基硫	Dimethyl sulfide	0.1% by weight (w/w)		
26	7550-45-0	四氯化鈦	Titanium tetrachloride	0.1% by weight (w/w)		
27	78-79-5	異戊二烯	Isoprene	0.1% by weight (w/w)		
28	7664-41-7	氨	Ammonia	0.1% by weight (w/w)		
29	96-33-3	丙烯酸甲 酯	Methyl acrylate	0.1% by weight (w/w)		
「固定污染源空氣污染防治收費費率」管制物質substances for air pollution control fee						
#	CAS No.	中文名稱	Chemical	Limit		
1	108-88-3	甲苯	Toluene	0.1% by weight (w/w)		
2	1330-20-7; 95-47-6; 108-38-3; 106-42-3	二甲苯	m/p-Xylene	0.1% by weight (w/w)		
				0.1% by weight (w/w)		
				0.1% by weight (w/w)		
				0.1% by weight (w/w)		
3	71-43-2	苯	Benzene	0.1% by weight (w/w)		
4	100-41-4	乙苯	Ethylbenzene	0.1% by weight (w/w)		
5	100-42-5	苯乙烯	Phenylethene; Styrene	0.1% by weight (w/w)		
6	75-09-2	二氯甲烷	Dichloromethane	0.1% by weight (w/w)		
7	75-34-3	1,1- 二氯乙烷	1,1-Dichloroethane	0.1% by weight (w/w)		
8	107-06-2	1,2- 二氯乙烷	1,2-Dichloroethane	0.1% by weight (w/w)		
9	67-66-3	三氯甲烷	Trichloromethane	0.1% by weight (w/w)		
10	71-55-6	1,1,1- 三氯乙烷	1,1,1-trichloroethane	0.1% by weight (w/w)		
11	56-23-5	四氯化碳	Tetrachloromethane	0.1% by weight (w/w)		
12	79-01-6	三氯乙烯	Trichloroethylene	0.1% by weight (w/w)		
13	127-18-4	四氯乙烯	Tetrachloroethylene	0.1% by weight (w/w)		

Source: <https://gazette.nat.gov.tw/egFront/detail.do?metaid=130052&log=detailLog>
Date of Last Update to List: 11/27/2022

附件 1 優先管理化學品之指定及運作管理辦法第 2 條第 2 款指定之化學品							
Annex 1 Priority Management of Chemicals Designated and Operational Management Procedures for Chemicals specified in Paragraph 2 of Article 2							
序號	CAS No.	English Name	中文名稱	備註	Limit	notes from REC	
1	56-55-3	1,2-Benzanthracene	1,2-苯并蒽	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
2	107-06-2	1,2-Dichloroethane	1,2-二氯乙烷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
3	75-56-9	1,2-Epoxypropane	1,2-環氧丙烷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
4	96-23-1	1,3-Dichloropropanol-2	1,3-二氯-2-丙醇	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
5	106-94-5	1-Bromopropane	1-溴丙烷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
6	556-52-5	2,3-Epoxypropanol	2,3-環氧丙醇	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
7	3033-77-0	2,3-Epoxypropyltrimethylammonium chloride	氯化 2,3-環氧丙基三甲基銨	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
8	75-26-3	2-Bromopropane	2-溴丙烷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
9	70657-70-4	2-Methoxy-1-propyl acetate	乙酸 2-甲氧基-1-丙酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
10	101-14-4	3,3-Dichloro-4,4-diaminodiphenylmethane	3,3-二氯-4,4-二胺基苯化甲烷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
11	96-24-2	3-Chloro-1,2-propanediol	3-氯-1,2-丙二醇	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
12	101-80-4	4,4'-Oxydianiline	4,4'-氧二苯胺	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
13	497-76-7	4-Hydroxyphenyl-beta-D-glucopyranoside	對苯二酚-beta-D-葡萄糖苷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
14	17804-35-2	Benomyl	苯菌靈	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
15	117-61-3	Benzidine-2,2'-disulfonic acid	2,2'-聯苯胺二磺酸	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
16	1303-86-2	Boric oxide	氧化硼	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
17	12007-56-6	Boron calcium oxide	硼鈣氧化物	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
18	10605-21-7	Carbendazim	貝芬替	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
19	8007-45-2	Coal tar	煤焦油	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
20	10124-43-3	Cobalt sulfate	硫酸鈷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
21	111-96-6	Diethyleneglycol dimethyl ether	二乙二醇二甲醚	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
22	127-19-5	Dimethyl acetamide	二甲基乙醯胺	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
23	756-79-6	Dimethyl methylphosphonate	甲基膦酸二甲酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
24	51-79-6	Ethyl carbamate	胺甲酸乙酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
25	62-50-0	Ethyl methanesulfonate	甲磺酸乙酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
26	110-71-4	Ethylene glycol dimethyl ether	乙二醇二甲醚	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
27	111-15-9	Ethylene glycol monoethyl ether acetate	乙二醇乙醚醋酸酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
28	110-49-6	Ethylene glycol monomethyl ether acetate	乙二醇甲醚醋酸酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
29	96-45-7	Ethylene thiourea	仲乙硫脲	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
30	93-15-2	Methyl eugenol	甲基丁香酚	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
31	13927-77-0	Nickel bis(dibutylidithiocarbamate)	雙(二丁基二硫胺甲酸)鎳	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
32	79-16-3	N-Methylacetamide	N-甲基乙醯胺	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
33	123-39-7	N-Methylformamide	N-甲基甲醯胺	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
34	872-50-4	N-Methylpyrrolidinone	N-甲基吡咯烷酮	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
35	15305-07-4	N-Nitroso-N-phenylhydroxylamine aluminum salt	N-亞硝基-N-苯基脲銨鋁鹽	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
36	58-36-6	Oxybisphenoxarsine	氧雙【口罅】砷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
37	68511-62-6	Pigment Yellow 150	顏料黃 150	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
38	12045-78-2	Potassium tetraborate tetrahydrate	四硼酸鉀四水合物	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
39	11103-86-9	Potassium zinc chromate hydroxide	氫氧化鉻酸鉀鋅	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
40	14464-46-1	Silica crystalline	晶性矽	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
41	1330-43-4	Sodium tetraborate	四硼酸鈉	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
42	112-49-2	Triethylene glycol dimethyl ether	三甘醇二甲醚	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
43	66-81-9	Actidione	放線菌酮	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
44	446-86-6	Azathioprine	氮硫唑嘌呤	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
45	992-59-6	Benzopurpurine 4B	苯紅紫 4B	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
46	10043-35-3	Boric acid	硼酸	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		
47	106-99-0	1,3-Butadiene	1,3-丁二烯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight		

Source: <https://gazette.nat.gov.tw/egFront/detail.do?metaid=130052&log=detailLog>
Date of Last Update to List: 11/27/2022

附件 1 優先管理化學品之指定及運作管理辦法第 2 條第 2 款指定之化學品						
Annex 1 Priority Management of Chemicals Designated and Operational Management Procedures for Chemicals specified in Paragraph 2 of Article 2						
48	12219-02-2	C.I. Acid Black 132	C.I.酸性黑 132	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
49	12217-14-0	C.I. Acid Black 29	C.I.酸性黑 29	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
50	12220-27-8	C.I. Acid Red 279	C.I.酸性紅 279	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
51	5858-39-9	C.I. Acid Red 4	C.I.酸性紅 4	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
52	2610-05-1	C.I. Direct Blue 1	C.I.直接藍 1	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
53	4198-19-0	C.I. Direct Blue 10	C.I.直接藍 10	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
54	16071-86-6	C.I. Direct Brown 95	C.I.直接棕 95	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
55	3564-27-0	C.I. Mordant Orange 6	C.I.媒染橙 6	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
56	58339-34-7	C.I. Pigment Red 108	C.I.顏料紅 108	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
57	37300-23-5	C.I. Pigment Yellow 36	C.I.顏料黃 36	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
58	627-42-9	2-Chloroethyl methyl ether	2-氯乙基甲基醚	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
59	12126-59-9	Conjugated estrogens	共軛雌激素	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
60	838-88-0	4,4'-Diamino-3,3'-dimethyldiphenylmethane	4,4'-二胺基-3,3'-二甲基二苯甲烷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
61	1476-11-5	cis-1,4-Dichloro-2-butene	順 1,4-二氯-2-丁烯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
62	2050-68-2	4,4'-Dichlorobiphenyl	4,4'-二氯聯苯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
63	12007-60-2	Dilithium tetraborate	四硼酸二鋰	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
64	2602-46-2	Direct blue 6	直接藍 6	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
65	4335-09-5	Disodium 4-amino-5-hydroxy-6-[[4'-[(4- hydroxyphenyl)azo][1,1'-biphenyl]-4-yl]azo]-3-[(4-nitrophenyl)azo]naphthalene-2,7-disulfonate	4-胺基-5-羥基-6-[[4'-[(4-羥苯基)偶氮][1,1'-聯苯]-4-基]偶氮]-3-[(4-硝基基)偶氮]萘-2,7-二磺酸二鈉	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
66	12008-41-2	Disodium octaborate	八硼酸二鈉	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
67	12280-03-4	Disodium octaborate tetrahydrate	八硼酸二鈉四水合物	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
68	6106-24-7	Disodium tartrate dihydrate	二水合酒石酸二鈉	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
69	3388-04-3	2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane	2-(3,4-環氧環己基)乙基三甲氧基矽烷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
70	629-14-1	Ethylene glycol diethyl ether	乙二醇二乙醚	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
71	68603-83-8	Fatty acids, C6-19-branched, lead salts, basic	鹼性 C6-19 支鏈脂肪鉛鹽	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
72	85509-19-9	Flusilazole	護砂得	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
73	128794-94-5	4-Hexenoic acid, 6-(1,3-dihydro-4- hydroxy-6-methoxy-7-methyl-3-oxo-5- isobenzofuranyl)-4-methyl-, 2-(4-morpholinyl)ethyl ester, (4E)-	(4E)-6-(1,3-二氫-4-羥基-6-甲氧基-7-甲基-3-側氧基-5-異苯并呋喃基)-4-甲基-4-己烯酸-2-(4-嗎福林基)乙酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
74	68411-78-9	Lead oxide (PbO), lead-contg.	氧化鉛	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
75	91671-83-9	Lead(2+) isooctanoate, basic	鹼性異辛酸鉛鹽(II)	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
76	330-55-2	Linuron	理有龍	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
77	10377-51-2	Lithium iodide	碘化鋰	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
78	82640-04-8	Methanone, [6-hydroxy-2-(4- hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyloxy)phenyl]-, hydrochloride (1:1)	[6-羥基-2-(4-羥基苯基)苯[b]噻吩-3-基][4-[2-(1-哌啶基)乙氧基]苯基]甲醯鹽酸鹽(1:1)	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
79	24280-93-1	Mycophenolic acid	黴酚酸	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
80	83968-31-4	9-Octadecenoic acid (Z)-, compds. with oxidized N,N-dimethylbenzenamine- formaldehyde-N-methylbenzenamine reaction products	(Z)-9-十八烯酸與氧化 N,N-二甲基苯胺-甲醛-N-甲基苯胺反應產物的化合物	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
81	13840-56-7	Orthoboric acid, sodium salt	硼酸鈉鹽	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
82	13709-94-9	Potassium metaborate	偏硼酸鉀	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
83	34183-22-7	Propafenone hydrochloride	鹽酸普羅帕酮	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
84	119738-06-6	Quizalofop-p-tefuryl	快伏草	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
85	11130-12-4	Sodium borate pentahydrate	五水合硼酸鈉	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
86	1303-96-4	Sodium tetraborate, decahydrate	四硼酸鈉十水合物	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
87	12179-04-3	Sodium tetraborate, pentahydrate	四硼酸鈉五水合物	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
88	632-22-4	Tetramethylurea	四甲基脲	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
89	76-25-5	Triamcinolone acetonide	丙酮特安皮質醇	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
90	24602-86-6	Tridemorph	三得芬	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
91	738-70-5	Trimethoprim	曲美普林	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	

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Date of Last Update to List: 11/27/2022

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92	512-56-1	Trimethyl phosphate	磷酸三甲酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
93	140-08-9	Tris(2-chloroethyl) phosphite	亞磷酸三(2-氯乙基)酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
94	50471-44-8	Vinclozolin	免克寧	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
95	149-30-4	2-Mercaptobenzothiazole	2-巰硫基苯并噻唑	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
96	75-09-2	Dichloromethane	二氯甲烷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
97	78-79-5	Isoprene	異戊二烯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
98	8032-32-4	Petroleum benzene	輕油精	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
99	8030-30-6	Petroleum naphtha	石油精	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
100	100-42-5	Styrene	苯乙烯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
101	137-26-8	Thiram	得思地	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
102	3121-61-7	Methoxyethyl acrylate	丙烯酸甲氧基乙酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
103	122-60-1	Phenyl glycidyl ether	苯基縮水甘油醚	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
104	77-09-8	Phenolphthalein	酚酞	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
105	51481-61-9	Cimetidine	西咪替丁	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
106	7646-79-9	Cobalt chloride	氯化鈷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
107	10026-22-9	Cobalt nitrate hexahydrate	硝酸鈷六水合物	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
108	513-79-1	Cobalt(II) carbonate	碳酸鈷(II)	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
109	10141-05-6	Cobalt nitrate	硝酸鈷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
110	1405-10-3	Neomycin sulfate	硫酸新絲菌素	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
111	13463-39-3	Nickel carbonyl	四羰化鎳	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
112	71-48-7	Cobalt acetate	乙酸鈷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
113	7789-43-7	Cobalt bromide	溴化鈷	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
114	60459-08-7	Cobalt(II) sulfate hydrate	水合硫酸鈷(II)	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
115	111-41-1	Aminoethyl ethanolamine	胺乙基乙醇胺	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
116	111-40-0	Diethylene triamine	二次乙基三胺	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
117	624-83-9	Methyl isocyanate	異氰酸甲酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
118	7791-13-1	Cobalt(II) chloride hexahydrate	氯化鈷(II)六水合物	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
119	13138-45-9	Nickel nitrate	硝酸鎳	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
120	13478-00-7	Nickel(II) nitrate hexahydrate	硝酸鎳(II)六水合物	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
121	6147-53-1	Cobalt(II) acetate tetrahydrate	乙酸鈷(II)四水合物	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
122	7718-54-9	Nickel chloride	氯化鎳	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
123	7786-81-4	Nickel sulfate	硫酸鎳	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
124	7791-20-0	Nickel(II) chloride hexahydrate	氯化鎳(II)六水合物	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
125	13770-89-3	Nickel(II) sulfamate	胺磺酸鎳(II)	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
126	373-02-4	Nickel(II) acetate	乙酸鎳(II)	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
127	15699-18-0	Nickel(II) ammonium sulfate	硫酸鎳(II)銨	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
128	13462-88-9	Nickel(II) bromide	溴化鎳(II)	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
129	3333-67-3	Nickel(II) carbonate	碳酸鎳(II)	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
130	6018-89-9	Nickel acetate tetrahydrate	四水合醋酸鎳	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
131	12607-70-4	Nickel carbonate hydroxide	鹼式碳酸鎳	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
132	10028-18-9	Nickel difluoride	二氟化鎳	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
133	3349-06-2	Nickel diformate	甲酸鎳(II)	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
134	12054-48-7	Nickel(II) hydroxide	氫氧化鎳	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
135	14220-17-8	Potassium tetracyanonickelate(II)	氰化鎳(II)鉀	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
136	4454-16-4	Nickel bis(2-ethylhexanoate)	雙(2-乙基己酸)鎳	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
137	50-00-0	Formaldehyde	甲醛	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
138	20039-37-6	Pyridinium dichromate	鉻酸吡啶鹽	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	

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139	2451-62-9	Triglycidyl isocyanurate	異三聚氰酸三縮水甘油酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
140	68391-11-7	Alkylpyridine	烷基吡啶	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
141	13360-57-1	Dimethylsulphamoyl chloride	二甲基胺磺醯基氯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
142	143860-04-2	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	3-乙基-2-甲基-2-(3-甲丁基)-1,3-【口粵】吡嗪	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
143	625-45-6	Methoxyacetic acid	甲氧基乙酸	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
144	99-66-1	2-Propylvaleric acid	2-丙基戊酸	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
145	10486-00-7	Sodium perborate tetrahydrate	過硼酸鈉四水合物	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
146	109-72-8	Butyllithium	丁基鋰	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
147	16940-66-2	Sodium borohydride	硼氫化鈉	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
148	106-91-2	Glycidyl methacrylate	甲基丙烯酸縮水甘油酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
149	10294-34-5	Boron trichloride	三氯化硼	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
150	5625-90-1	N,N'-Methylenebismorpholine	N,N'-亞甲基雙【口末】琳	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
151	616-45-5	2-Pyrrolidone	2-吡咯啉酮	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
152	7378-99-6	N,N-Dimethyloctan-1-amine	N,N-二甲基-1-辛胺	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
153	13762-51-1	Potassium borohydride	硼氫化鉀	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
154	1589-47-5	2-Methoxy-1-propanol	2-甲氧基-1-丙醇	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
155	135-20-6	Cupferron	銅鐵靈	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
156	77-78-1	Dimethyl sulfat	硫酸二甲酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
157	55566-30-8	Tetrakis(hydroxymethyl)phosphonium sulfate	肆羥甲基鏽硫酸鹽	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
158	13464-80-7	Dihydrazinium sulfate	硫酸二肼	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
159	67939-65-5	N-[4-{Bis[4-(dimethylamino)phenyl]methylene}cyclohexa-2,5-dien-1-ylidene]-N-methylmethanaminium acetate	N-[4-{二(4-二甲胺基)苯基}亞甲基]-2,5-環己二烯-1-亞基]-N-甲基甲銨乙酸鹽	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
160	112-00-5	Dodecyltrimethylammonium chloride	氯化十二烷基三甲基銨	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
161	116-14-3	Tetrafluoroethylene	四氟乙烯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
162	108-91-8	Cyclohexylamine	環己胺	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
163	302-17-0	Chloral hydrate	水合氯醛	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
164	10217-52-4	Hydrazine, hydrate	聯胺水合物	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
165	1067-33-0	Dibutyltin diacetate	二乙酸二丁錫	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
166	78-04-6	Dibutyltin maleate	順丁烯二酸二丁基錫	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
167	683-18-1	Dibutyltin dichloride	二氯化二丁錫	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
168	107-13-1	Acrylonitrile	丙烯腈	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
169	1309-64-4	Antimony trioxide	三氧化二銻	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
170	71-43-2	Benzene	苯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
171	630-08-0	Carbon monoxide	一氧化碳	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
172	56-75-7	Chloramphenicol	氯黴素	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
173	77-58-7	Dibutyltin dilaurate	二月桂酸二丁錫	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
174	110-80-5	Ethylene glycol monoethyl ether	乙二醇乙醚	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
175	109-86-4	Ethylene glycol Monomethyl ether	乙二醇甲醚	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
176	68-12-2	N,N-Dimethylformamide	二甲基甲醯胺	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
177	127-18-4	Tetrachloroethylene	四氯乙烯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
178	75-01-4	Vinyl chloride	氯乙烯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
179	11113-75-0	Nickel sulfide	硫化鎳	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
180	14177-55-0	Nickel(II) molybdate	鉬酸鎳(II)	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
181	2795-39-3	Potassium heptadecafluorooctane-1-sulfonate	十七氟-1-辛磺酸鉀	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
182	1069-66-5	Sodium valproate	丙戊酸鈉	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
183	1332-21-4	Asbestos	石棉	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	
184	7440-43-9	Cadmium and its compounds	鎘及其化合物	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight	

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Date of Last Update to List: 11/27/2022

附件 1 優先管理化學品之指定及運作管理辦法第 2 條第 2 款指定之化學品					
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185	98-73-7	p-tert-Butylbenzoic acid	對-叔丁基苯甲酸	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight
186	25155-23-1	Trixylol phosphate	磷酸三(二甲苯)基酯	致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級	1% by Weight
187	150-39-0	N-(2-Hydroxyethyl)ethylenedinitrilotriacetic acid	N-(2-羥乙基)乙二氮基-N,N',N'-三乙酸		1% by Weight
188	501-30-4	5-Hydroxy-2-hydroxymethyl-4-pyrone	5-羥基-2-羥甲基-4-嘧【口弄】		1% by Weight
189	79-34-5	1,1,2,2-Tetrachloroethane	1,1,2,2-四氯乙烷		1% by Weight
190	688-84-6	2-Ethyl-1-hexyl methacrylate	甲基丙烯酸 2-乙基-1-己基酯		1% by Weight
191	149-57-5	2-Ethylhexoic acid	2-乙基己酸		1% by Weight
192	627-44-1	Alkyl mercury compounds	烷基汞化合物 (烷基以甲基或乙基為限)		1% by Weight
193	107-05-1	Allyl chloride	氯丙烯		1% by Weight
194	2465-27-2	Auramine	奧黃		1% by Weight
195	25013-16-5	Butylated hydroxyanisole	丁基化羥苯基甲基醚		1% by Weight
196	1345-16-0	C.I. pigment blue 28	C.I.顏料藍 28		1% by Weight
197	63449-39-8	Chlorinated paraffin	氯化石蠟		1% by Weight
198	111-77-3	Diethylene glycol monomethyl ether	二甘醇單甲醚		1% by Weight
199	121-14-2	Dinitrotoluene	二硝基甲苯		1% by Weight
200	75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	二苯基(2,4,6-三甲基苯甲酰基)磷氧化物		1% by Weight
201	140-88-5	Ethyl acrylate	丙烯酸乙酯		1% by Weight
202	111-76-2	Ethylene glycol monobutyl ether	乙二醇丁醚		1% by Weight
203	98-00-0	Furfuryl alcohol	2-呋喃甲醇		1% by Weight
204	107-22-2	Glyoxal	乙二醛		1% by Weight
205	108-80-5	Isocyanuric acid	異三聚氰酸		1% by Weight
206	632-99-5	Magenta	苯胺紅		1% by Weight
207	74-83-9	Methyl bromide	溴甲烷		1% by Weight
208	74-88-4	Methyl iodide	碘甲烷		1% by Weight
209	91-20-3	Naphthalene	萘		1% by Weight
210	110-54-3	n-Hexane	正己烷		1% by Weight
211	54-11-5	Nicotine	菸鹼		1% by Weight
212	75-52-5	Nitromethane	硝基甲烷		1% by Weight
213	556-67-2	Octamethylcyclotetrasiloxane	八甲基環四矽氧烷		1% by Weight
214	120-80-9	o-Dihydroxybenzene	鄰苯二酚		1% by Weight
215	88-73-3	o-Nitrochlorobenzene	鄰氯硝基苯		1% by Weight
216	106-46-7	p-Dichlorobenzene	對二氯苯		1% by Weight
217	60-11-7	p-Dimethylaminoazobenzene	對二甲胺基偶氮苯		1% by Weight
218	100-00-5	p-Nitrochlorobenzene	對-硝基氯苯		1% by Weight
219	3926-62-3	Sodium chloroacetate	氯乙酸鈉		1% by Weight
220	100-21-0	Terephthalic acid	對苯二甲酸		1% by Weight
221	109-99-9	Tetrahydrofuran	四氫呋喃		1% by Weight
222	108-88-3	Toluene	甲苯		1% by Weight
223	67-66-3	Trichloromethane	三氯甲烷		1% by Weight
224	5064-31-3	Trisodium nitrilotriacetate	氮基三乙酸三鈉鹽		1% by Weight
225	57-57-8	β-Propiolactone	β-丙內酯		1% by Weight
226	95-51-2	2-Chloroaniline	2-氯苯胺		1% by Weight
227	103-90-2	p-Acetamidophenol	對乙酰胺基苯酚		1% by Weight
228	15972-60-8	Alachlor	拉草		1% by Weight
229	1758-73-2	Aminoiminomethanesulfonic acid	胺基亞胺基甲亞磺酸		1% by Weight
230	119-61-9	Benzophenone	二苯基酮		1% by Weight
231	16432-81-8	2-(4-Benzoyl-3-hydroxyphenoxy)ethyl acrylate	丙烯酸 2-(4-苯甲酰-3-羥基氧基)乙酯		1% by Weight
232	103-23-1	Bis(2-ethylhexyl) adipate	己二酸雙(2-乙基己基)酯		1% by Weight
233	13676-54-5	4,4'-Bis(maleimidophenyl)methane	4,4'-雙(順丁烯二酰亞胺基)甲烷		1% by Weight
234	2475-44-7	C.I. Disperse Blue 14	C.I.分散藍 14		1% by Weight
235	6408-72-6	C.I. Disperse violet 26	C.I.分散紫 26		1% by Weight
236	3327-22-8	(3-Chloro-2-hydroxypropyl)trimethylammonium chloride	氯化 3-氯-2-羥丙基三甲基銨		1% by Weight
237	68457-13-6	Cobalt borate neodecanoate	硼酸新癸酸鈣		1% by Weight
238	1333-88-6	Dialuminium cobalt tetraoxide	鋁酸鈣		1% by Weight
239	818-08-6	Dibutyltin oxide	氧化二丁錫		1% by Weight
240	36734-19-7	3-(3,5-Dichlorophenyl)-2,4-dioxo-N-isopropylimidazolidine-1-carboxamide	貝芬同		1% by Weight
241	92-88-6	4,4'-Dihydroxydiphenyl	4,4'-二羥基聯苯		1% by Weight
242	868-85-9	Dimethyl phosphonate	磷酸二甲酯		1% by Weight
243	99-97-8	N,N-Dimethyl-p-toluidine	N,N-二甲基對甲苯胺		1% by Weight
244	110-05-4	Di-tert-butyl peroxide	過氧化二(三級丁基)		1% by Weight
245	26761-45-5	2,3-Epoxypropyl neodecanoate	新癸酸 2,3-環氧丙酯		1% by Weight
246	7328-17-8	Ethoxycethoxyethyl acrylate	丙烯酸乙氧基乙氧基乙酯		1% by Weight
247	2224-15-9	Ethylene glycol diglycidyl ether	乙二醇二環氧丙基醚		1% by Weight
248	98-01-1	Furfural	呋喃甲醇		1% by Weight
249	55919-77-2	3-Hydroxy-2,2-bis(hydroxymethyl)propyl acrylate	丙烯酸 3-羥基-2,2-雙(羥基甲基)丙酯		1% by Weight
250	92-70-6	3-Hydroxy-2-naphthoic acid	3-羥基-2-萘甲酸		1% by Weight
251	142-73-4	Iminodiacetic acid	亞胺基二乙酸		1% by Weight
252	7447-41-8	Lithium chloride	氯化鋰		1% by Weight
253	88-19-7	2-Methylbenzenesulfonamide	2-甲苯磺醯胺		1% by Weight
254	119-47-1	2,2'-Methylenedis(4-methyl-6-tert-butylphenol)	2,2'-亞甲基雙(4-甲基-6-三級丁基苯酚)		1% by Weight
255	88-74-4	2-Nitroaniline	2-硝基苯胺		1% by Weight
256	2646-15-3	Oil blue N	油藍 N		1% by Weight

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257	80-51-3	4,4'-Oxydi(benzenesulfonohydrazide)	4,4'-氧雙(苯磺醯肼)		1% by Weight
258	2657-87-6	3,4'-Oxydianiline	3,4'-氧二苯胺		1% by Weight
259	57-33-0	Pentobarbital sodium	戊巴比妥鈉		1% by Weight
260	534-85-0	N-Phenyl-1,2-phenylenediamine	N-苯基-1,2-苯二胺		1% by Weight
261	135-88-6	N-Phenyl-beta-naphthylamine	N-苯基-β-萘胺		1% by Weight
262	108-45-2	m-Phenylenediamine	間位苯二胺		1% by Weight
263	95-54-5	o-Phenylenediamine	鄰位苯二胺		1% by Weight
264	134-03-2	Sodium ascorbate	抗壞血酸鈉		1% by Weight
265	7789-38-0	Sodium bromate	溴酸鈉		1% by Weight
266	110-61-2	Succinonitrile	丁二腈		1% by Weight
267	630-20-6	1,1,1,2-Tetrachloroethane	1,1,1,2-四氯乙烷		1% by Weight
268	28768-32-3	N,N,N',N'-Tetrakis(oxiran-2-ylmethyl)-4,4'-methylenedianiline	N,N,N',N'-四環氧丙基-4,4'-亞甲基二苯胺		1% by Weight
269	75-74-1	Tetramethyl lead	四甲基鉛		1% by Weight
270	85954-11-6	2,2'-[(3,3',5,5'-Tetramethyl-(1,1'-biphenyl)-4,4'-diyl)-bis(oxyethylene)]-bis-oxirane	2,2'-[(3,3',5,5'-四甲基[1,1'-聯苯]-4,4'-二基)雙(氧亞甲基)]雙環氧乙烷		1% by Weight
271	7328-97-4	Tetraphenylmethane-epichlorohydrin resin	四酚乙烷-環氧氯丙烷樹脂		1% by Weight
272	23564-05-8	Thiophenyl-methyl	甲基硫菌靈		1% by Weight
273	1576-35-8	p-Toluenesulfonyl hydrazide	對甲苯磺醯肼		1% by Weight
274	87-66-1	1,2,3-Trihydroxybenzene	1,2,3-三羥基苯		1% by Weight
275	471-01-2	3,5,5-Trimethylcyclohex-3-en-1-one	3,5,5-三甲基環己-3-烯-1-酮		1% by Weight
276	13674-87-8	Tris[2-chloro-1-(chloromethyl)ethyl] phosphate	磷酸三[2-氯-1-(氯甲基)乙基]酯		1% by Weight
277	87-59-2	2,3-Xyldine	2,3-二甲苯胺		1% by Weight
278	1300-73-8	Xyldine	二甲苯胺		1% by Weight
279	1058-92-0	C.I. Mordant Blue 13	C.I. 媒染藍 13		1% by Weight
280	6598-63-6	C.I. Direct Orange 102	C.I. 直接橙 102		1% by Weight
281	389-08-2	Nalidixic acid	萘利啶酸		1% by Weight
282	7440-48-4	Cobalt	鈷		1% by Weight
283	1307-96-6	Cobalt oxide	氧化鈷		1% by Weight
284	101-68-8	Methylene bisphenyl isocyanate	4,4'-二異氰酸二苯甲烷		1% by Weight
285	7440-02-0	Nickel	鎳		1% by Weight
286	123-30-8	p-Aminophenol	對氨基酚		1% by Weight
287	584-84-9	Toluene 2,4-diisocyanate	2,4-二異氰酸甲苯		1% by Weight
288	91-08-7	Toluene-2,6-diisocyanate	甲苯-2,6-二異氰酸酯		1% by Weight
289	7440-47-3	Chromium	鉻		1% by Weight
290	5873-54-1	1-Isocyanato-2-(4-isocyanatobenzyl)benzene	1-異氰酸基-2-(4-異氰酸基苄基)苯		1% by Weight
291	2536-05-2	1,1'-Methylenebis(2-isocyanatobenzene)	1,1'-亞甲基雙(2-異氰酸基苯)		1% by Weight
292	110-85-0	Piperazine	哌嗪【口井】		1% by Weight
293	477-73-6	Basic Red 2	鹼性紅 2		1% by Weight
294	693-98-1	2-Methylimidazole	2-甲基咪唑		1% by Weight
295	98-54-4	4-tert-Butylphenol	4-三級丁酚		1% by Weight
296	7446-70-0	Aluminium chloride, anhydrous	無水氯化鋁		1% by Weight
297	7447-39-4	Copper(II) chloride	氯化銅(II)		1% by Weight
298	123-31-9	Hydroquinone	苯二酚		1% by Weight
299	79-14-1	Hydroxyacetic acid	羥基乙酸		1% by Weight
300	6153-56-6	Oxalic acid dihydrate	草酸二水合物		1% by Weight
301	7632-04-4	Sodium perborate	過硼酸鈉		1% by Weight
302	75-91-2	tert-Butyl hydroperoxide	過氧化三級丁醇		1% by Weight
303	13473-90-0	Aluminum nitrate	硝酸鋁		1% by Weight
304	68155-06-6	Amides, C12-18, N,N-bis(hydroxyethyl)	N,N-雙(羥乙基)C12-18 醯胺		1% by Weight
305	32718-18-6	1-Bromo-3-chloro-5,5-dimethylimidazolidine-2,4-dione	溴氯-5,5-二甲基咪唑啉-2,4-二酮		1% by Weight
306	57018-52-7	1-tert-Butoxypropan-2-ol	1-三級丁氧基-2-丙醇		1% by Weight
307	7397-62-8	Butyl glycolate	羥乙酸丁酯		1% by Weight
308	56-18-8	3,3'-Diaminodipropylamine	3,3'-二胺基二丙基胺		1% by Weight
309	78-88-6	2,3-Dichloropropene	2,3-二氯丙烯		1% by Weight
310	136434-34-9	Duloxetine hydrochloride	杜洛西丁鹽酸鹽		1% by Weight
311	288-32-4	Imidazole	咪唑		1% by Weight
312	60-12-8	2-Phenylethanol	2-苯乙醇		1% by Weight
313	6152-33-6	Sodium 2-hydroxydiphenyl tetrahydrate	2-羥基聯苯鈉四水合物		1% by Weight
314	71-23-8	1-Propanol	1-丙醇		1% by Weight
315	68603-42-9	Coconut oil acid diethanolamide	椰子油酸二乙醇醯胺		1% by Weight
316	88-12-0	N-Vinyl-2-pyrrolidone	N-乙烯基-2-吡咯酮		1% by Weight
317	1897-45-6	Chlorothalonil	四氯異苯腈		1% by Weight
318	123-73-9	Crotonaldehyde	巴豆醛		1% by Weight
319	28519-02-0	Dodecyl(sulphophenoxy)benzenesulfonic acid, disodium salt	十二基(磺苯氧基)-苯磺酸二鈉鹽		1% by Weight
320	2312-35-8	Propargite	敵蟎多		1% by Weight
321	132-27-4	Sodium 2-phenylphenolate	2-苯基苯酚鈉		1% by Weight
322	52234-82-9	Trimethylolpropane tris(3-aziridinylpropanoate)	三羥甲基丙烷-三(3-吖啶基丙酸酯)		1% by Weight
323	7758-98-7	Copper sulfate	硫酸銅		1% by Weight
324	7803-57-8	Hydrazine monohydrate	水合肼		1% by Weight
325	96-29-7	Methyl ethyl ketoxime	甲基乙基肟		1% by Weight
326	144-62-7	Oxalic acid	草酸		1% by Weight
327	108-95-2	Phenol	酚		1% by Weight
328	10034-93-2	Hydrazine sulfate	硫酸肼		1% by Weight
329	79-00-5	1,1,2-Trichloroethane	1,1,2-三氯乙烷		1% by Weight

CHINA MINISTRY OF LABOR Notice is hereby given, for the stipulation to revise the list of designated chemicals regulated by Article 2 of "Regulations Governing Designating and Handling of Priority Management Chemicals" (stipulation shall become effective from 1st, April 2022)

Source: <https://gazette.nat.gov.tw/egFront/detail.do?metaid=130052&log=detailLog>
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附件 1 優先管理化學品之指定及運作管理辦法第 2 條第 2 款指定之化學品					
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330	108-90-7	Chlorobenzene	氯苯		1% by Weight
331	108-94-1	Cyclohexanone	環己酮		1% by Weight
332	950-37-8	Methodathion	滅大松		1% by Weight
333	96-33-3	Methyl acrylate	丙烯酸甲酯		1% by Weight
334	67-56-1	Methyl alcohol	甲醇		1% by Weight
335	591-78-6	Methyl butyl ketone	甲丁酮		1% by Weight
336	108-10-1	Methyl isobutyl ketone	甲基異丁酮		1% by Weight
337	10028-15-6	Ozone	臭氧		1% by Weight
338	108-98-5	Phenyl mercaptan	苯硫醇		1% by Weight
339	298-02-2	Phorate	福瑞松		1% by Weight
340	7757-79-1	Potassium nitrate	硝酸鉀		1% by Weight
341	7631-99-4	Sodium nitrate	硝酸鈉		1% by Weight
342	56-23-5	Tetrachloromethane	四氯化碳		1% by Weight
343	1314-62-1	Vanadium pentaoxide	五氧化二釩		1% by Weight
344	71751-41-2	Abamectin	阿巴汀		1% by Weight
345	99-55-8	2-Amino-4-nitrotoluene	2-胺基-4-硝基甲苯		1% by Weight
346	7803-55-6	Ammonium motavanadate	偏鉬酸銨		1% by Weight
347	7758-99-8	Copper sulfate pentahydrate	硫酸銅(II)五水合物		1% by Weight
348	15307-79-6	Diclofenac sodium	二氯芬酸鈉鹽		1% by Weight
349	3542-36-7	Diocytlanium dichloride	二辛基鎢二氯化物		1% by Weight
350	122-14-5	Fenitrothion	撲滅松		1% by Weight
351	55-63-0	Nitroglycerin	硝化甘油		1% by Weight
352	1461-25-2	Tetrabutyltin	正丁基錫		1% by Weight
353	78-00-2	Tetraethyl lead	四乙基鉛		1% by Weight
354	123-77-3	1,1'-Azobis(formamide)	1,1'-偶氮雙甲脒胺		1% by Weight
355	7727-54-0	Ammonium persulfate	過硫酸銨		1% by Weight
356	17095-24-8	C.I. Reactive black 5	活性黑 5		1% by Weight
357	822-06-0	Hexamethylene diisocyanate	六亞甲二異氰酸酯		1% by Weight
358	100-97-0	Hexamethylenetetramine	六亞甲四胺		1% by Weight
359	4098-71-9	Isophorone diisocyanate	二異氰酸異佛爾酮		1% by Weight
360	5124-30-1	Methylene bis(4-cyclohexylisocyanate)	亞甲基雙(4-環己異氰酸酯)		1% by Weight
361	28182-81-2	Poly(hexamethylene diisocyanate)	聚六亞甲基二異氰酸酯		1% by Weight
362	7727-21-1	Potassium persulfate	過硫酸鉀		1% by Weight
363	8050-09-7	Rosin	松香		1% by Weight
364	7775-27-1	Sodium persulfate	過硫酸鈉		1% by Weight
365	122-57-6	Benzylidene acetone	亞苯丙酮		1% by Weight
366	25854-16-4	1,2-Bis(isocyanatomethyl)benzene	1,2-雙(異氰酸基甲基)苯		1% by Weight
367	1934-21-0	C.I. Acid Yellow 23	C.I.酸性黃 23		1% by Weight
368	71872-76-9	C.I. Reactive Blue 160	C.I.活性藍 160		1% by Weight
369	20262-58-2	C.I. Reactive Orange 16	C.I.活性橙 16		1% by Weight
370	12225-83-1	C.I. Reactive Orange 7	C.I.活性橙 7		1% by Weight
371	27164-46-1	Cefazolin sodium	頭孢唑啉鈉		1% by Weight
372	93107-08-5	Ciprofloxacin hydrochloride	環丙沙星鹽酸鹽		1% by Weight
373	5026-74-4	4-(Diglycidylamino)phenyl glycidyl ether	4-(二環氧丙基胺基)苯基環氧丙基醚		1% by Weight
374	97-53-0	Eugenol	丁香酚		1% by Weight
375	1795-48-8	Isopropyl isocyanate	異氰酸異丙酯		1% by Weight
376	137330-13-3	Tilmicosin phosphate	替米考星磷酸鹽		1% by Weight
377	79-33-4	(S)-(+)-2-Hydroxypropanoic acid	(S)-(+)-2-羥基丙酸		1% by Weight
378	107-45-9	1,1,3,3-Tetramethylbutylamine	1,1,3,3-四甲基丁胺		1% by Weight
379	2634-33-5	1,2-Benzisothiazole-3-one	1,2-苯并異噻唑-3-酮		1% by Weight
380	124-09-4	1,6-Hexanediamine	1,6-己二胺		1% by Weight
381	71-36-3	1-Butyl alcohol	1-丁醇		1% by Weight
382	97-00-7	1-Chloro-2,4-dinitrobenzene	1-氯-2,4-二硝基苯		1% by Weight
383	112-55-0	1-Dodecanethiol	十二硫醇		1% by Weight
384	102-81-8	2-(Diethylamino)ethanol	2-(二乙胺基)乙醇		1% by Weight
385	2439-35-2	2-(Dimethylamino)ethyl acrylate	丙烯酸 2-(二甲基胺基)乙酯		1% by Weight
386	15214-89-8	2-Acrylamido-2-methylpropanesulfonic acid	2-丙烯醯胺-2-甲基丙磺酸		1% by Weight
387	929-06-6	2-Aminoethoxyethanol	2-胺基乙氧基乙醇		1% by Weight
388	100-37-8	2-Diethyl-aminoethanol	2-二乙胺基乙醇		1% by Weight
389	108-01-0	2-Dimethylaminoethanol	2-二甲氨基乙醇		1% by Weight
390	2867-47-2	2-Dimethylaminoethyl methacrylate	甲基丙烯酸 2-二甲胺基乙酯		1% by Weight
391	931-36-2	2-Ethyl-4-methylimidazole	2-乙基-4-甲基咪唑		1% by Weight
392	999-61-1	2-Hydroxypropyl acrylate	丙烯酸 2-羥基丙酯		1% by Weight
393	2682-20-4	2-Methyl-4-isothiazolin-3-one	2-甲基異噻唑啉-3-酮		1% by Weight
394	109-83-1	2-Methylaminoethanol	2-甲胺乙醇		1% by Weight
395	97-65-4	2-Methylsuccinic acid	亞甲基丁二酸		1% by Weight
396	37971-36-1	2-Phosphonobutane-1,2,4-tricarboxylic acid	2-膦酸丁烷-1,2,4-三羧酸		1% by Weight
397	88-18-6	2-t-Butylphenol	2-叔丁基苯酚		1% by Weight
398	100-69-6	2-Vinylpyridine	2-乙烯吡啶		1% by Weight
399	6864-37-5	3,3'-Dimethyl-4,4'-diaminodicyclohexylmethane	3,3'-二甲基-4,4'-二胺基二環己基甲烷		1% by Weight
400	108-68-9	3,5-Dimethylphenol	3,5-二甲酚		1% by Weight
401	108-99-6	3-Methylpyridine	3-甲基吡啶		1% by Weight
402	90-93-7	4,4'-Bis(diethylamino)benzophenone	4,4'-雙(N,N-二乙胺基)二苯基酮		1% by Weight
403	1761-71-3	4,4'-Methylenebis(cyclohexylamine)	4,4'-亞甲基雙環己胺		1% by Weight
404	1122-58-3	4-Dimethylaminopyridine	4-二甲胺基吡啶		1% by Weight

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405	371-41-5	4-Fluorophenol	4-氟苯酚		1% by Weight
406	2226-96-2	4-Hydroxy-2,2,6,6-tetramethylpiperidinoxy	4-羥基-2,2,6,6-四甲基哌啶氮氧自 由基		1% by Weight
407	98-67-9	4-Hydroxybenzenesulfonic acid	4-羥基苯磺酸		1% by Weight
408	104-40-5	4-Nonylphenol	4-壬基酚		1% by Weight
409	98-29-3	4-tert-Butylcatechol	4-三級丁基鄰苯二酚		1% by Weight
410	26172-55-4	5-Chloro-2-methyl-4-isothiazolin-3-one	5-氯-2-甲基-4-異噻唑啉-3-酮		1% by Weight
411	90-51-7	7-Amino-1-naphthol-3-sulfonic acid	7-胺基-1-萘酚-3-磺酸		1% by Weight
412	87-02-5	7-Amino-4-naphthol-2-sulfonic acid	7-胺基-4-萘酚-2-磺酸		1% by Weight
413	64-19-7	Acetic acid	醋酸		1% by Weight
414	108-24-7	Acetic anhydride	乙酐		1% by Weight
415	79-10-7	Acrylic acid	丙烯酸		1% by Weight
416	7784-30-7	Aluminum phosphate	磷酸鋁		1% by Weight
417	61788-46-3	Amines, coco alkyl	椰油烷基胺		1% by Weight
418	6419-19-8	Aminotris(methylenephosphonic acid)	胺基參亞甲基磷酸		1% by Weight
419	7664-41-7	Ammonia	氨		1% by Weight
420	17194-00-2	Barium hydroxide	氫氧化鋇		1% by Weight
421	98-88-4	Benzoyl chloride	苯醯氯		1% by Weight
422	103-83-3	Benzylidimethylamine	苯甲基二甲胺		1% by Weight
423	5538-94-3	Bisocetyl dimethylammonium chloride	氯化雙辛基二甲基銨		1% by Weight
424	7726-95-6	Bromine	溴		1% by Weight
425	68584-22-5	C10-16-Alkylbenzenesulfonic acid	C10-16-烷基苯磺酸		1% by Weight
426	7440-70-2	Calcium	鈣		1% by Weight
427	75-20-7	Calcium carbide	碳化鈣		1% by Weight
428	1305-62-0	Calcium hydroxide	氫氧化鈣		1% by Weight
429	7778-54-3	Calcium hypochlorite	次氯酸鈣		1% by Weight
430	1305-78-8	Calcium oxide	氧化鈣		1% by Weight
431	142-62-1	Caproic acid	己酸		1% by Weight
432	16774-21-3	Cerium ammonium nitrate	硝酸銨銻		1% by Weight
433	10049-04-4	Chlorine dioxide	二氧化氯		1% by Weight
434	7790-94-5	Chlorosulphonic acid	氯磺酸		1% by Weight
435	123-41-1	Choline hydroxide	氫氧化膽鹼		1% by Weight
436	1319-77-3	Cresol	甲酚		1% by Weight
437	80-15-9	Cumene hydroperoxide	【永久】氫過氧化物		1% by Weight
438	4109-96-0	Dichlorosilane	二氯矽烷		1% by Weight
					REC Product. Intentionally contains this Chemical.
439	101-83-7	Dicyclohexylamine	二環己胺		1% by Weight
440	61791-31-9	Diethanolamine of coconut oil fatty acid	椰子油脂脂肪酸二乙醇胺		1% by Weight
441	109-89-7	Diethylamine	二乙胺		1% by Weight
442	104-78-9	Diethylaminopropylamine	二乙胺基丙胺		1% by Weight
443	1191-15-7	Diisobutylaluminum hydride	二異丁基鋁氫化物		1% by Weight
444	74-94-2	Dimethylamine borane	二甲胺基硼烷		1% by Weight
445	75-78-5	Dimethyldichlorosilane	二甲基二氯矽烷		1% by Weight
446	111-92-2	Di-n-butylamine	二正丁胺		1% by Weight
447	1323-65-5	Dinonylphenol	二壬基苯酚		1% by Weight
448	577-11-7	Diethyl sodium sulfosuccinate	磺基丁二酸二辛酯鈉鹽		1% by Weight
449	1313-59-3	Disodium oxide	氧化鈉		1% by Weight
450	124-22-1	Dodecylamine	十二胺		1% by Weight
451	27176-87-0	Dodecylbenzenesulfonic acid	十二烷基苯磺酸		1% by Weight
452	69669-44-9	Dodecylbenzenesulfonic acid sodium salt	十二烷基苯磺酸鈉		1% by Weight
453	97-64-3	Ethyl lactate	乳酸乙酯		1% by Weight
454	563-43-9	Ethylaluminum dichloride	二氯化乙基鋁		1% by Weight
455	112-25-4	Ethylene glycol monohexyl ether	乙二醇單己醚		1% by Weight
456	7705-08-0	Ferric chloride, anhydrous	無水氯化鐵		1% by Weight
457	7758-94-3	Ferrous chloride	氯化亞鐵		1% by Weight
458	16872-11-0	Fluoroboric acid	氟硼酸		1% by Weight
459	64-18-6	Formic acid	甲酸		1% by Weight
460	999-97-3	Hexamethyldisilazane	六甲基二矽氮烷		1% by Weight
461	7647-01-0	Hydrogen chloride	氯化氫		1% by Weight
					REC Product. Intentionally contains this Chemical.
462	2809-21-4	Hydroxyethanediphosphonic acid	羥基亞乙基二磷酸		1% by Weight
463	7803-49-8	Hydroxylamine	羥胺		1% by Weight
464	6303-21-5	Hypophosphorous acid	次磷酸		1% by Weight
465	78-83-1	Isobutyl alcohol	異丁醇		1% by Weight
466	2855-13-2	Isophorone diamine	異佛酮二胺		1% by Weight
467	78-96-6	Isopropanolamine	異丙醇胺		1% by Weight
468	75-31-0	Isopropylamine	異丙胺		1% by Weight
469	55965-84-9	Isothiazolin	異噻唑啉		1% by Weight
470	50-21-5	Lactic acid	乳酸		1% by Weight
471	112-18-5	Lauryldimethylamine	月桂基二甲基胺		1% by Weight
472	7439-93-2	Lithium	鋰		1% by Weight
473	1310-65-2	Lithium hydroxide	氫氧化鋰		1% by Weight
474	75-75-2	Methanesulfonic acid	甲基磺酸		1% by Weight
475	79-22-1	Methyl chloroformate	氯甲酸甲酯		1% by Weight

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476	1338-23-4	Methyl ethyl ketone peroxide (MEKPO)	過氧化丁酮		1% by Weight	
477	74-89-5	Methylamine	甲胺		1% by Weight	
478	6317-18-6	Methylene bis(thiocyanate)	亞甲基雙硫氰酸酯		1% by Weight	
479	4253-34-3	Methylsilanetriyl triacetate	甲基矽三醇三乙酸酯		1% by Weight	
480	110-91-8	Morpholine	嗎啉		1% by Weight	
481	1477-55-0	m-Xylenediamine	間二甲苯二胺		1% by Weight	
482	109-55-7	N,N-Dimethyl-1,3-diaminopropane	N,N-二甲基-1,3-二胺基丙烷		1% by Weight	
483	101-96-2	N,N'-Di-sec-butyl-p-phenyldiamine	N,N'-二二級丁基對苯二胺		1% by Weight	
484	3069-29-2	N-[3-(dimethoxymethylsilyl)propyl]ethylenedia mine	N-[3-(二甲氧基甲基矽基)丙基]乙二胺		1% by Weight	
485	140-31-8	N-Aminoethylpiperazine	N-胺乙基哌嗪		1% by Weight	
486	111-36-4	n-Butyl isocyanate	異氰酸正丁酯		1% by Weight	
487	7697-37-2	Nitric acid	硝酸		1% by Weight	
488	941-69-5	N-phenylmaleimide	N-苯基順丁烯二醯亞胺		1% by Weight	
489	95-48-7	o-Cresol	鄰甲酚		1% by Weight	
490	124-07-2	Octanoic acid	辛酸		1% by Weight	
491	106-44-5	p-Cresol	對甲酚		1% by Weight	
492	112-05-0	Pelargonic acid	壬酸		1% by Weight	
493	4067-16-7	Pentaethylenhexamine	五仲乙六胺		1% by Weight	
494	79-21-0	Peroxyacetic acid	過醋酸		1% by Weight	
495	98-13-5	Phenyltrichlorosilane	苯基三氯矽烷		1% by Weight	
496	7664-38-2	Phosphoric acid	磷酸		1% by Weight	
497	10026-13-8	Phosphorus pentachloride	五氯化磷		1% by Weight	
498	1314-56-3	Phosphorus pentoxide	五氧化二磷		1% by Weight	
499	7646-93-7	Potassium hydrogen sulphate	硫酸氫鉀		1% by Weight	
500	1310-58-3	Potassium hydroxide	氫氧化鉀		1% by Weight	
501	865-33-8	Potassium methoxide	甲氧鉀		1% by Weight	
502	12136-45-7	Potassium oxide	氧化鉀		1% by Weight	
503	7722-64-7	Potassium permanganate	過錳酸鉀		1% by Weight	
504	79-09-4	Propionic acid	丙酸		1% by Weight	
505	89-32-7	Pyromellitic dianhydride	焦蜜石酸二酐		1% by Weight	
506	123-75-1	Pyroldine	吡咯啉		1% by Weight	
507	10026-04-7	Silicon tetrachloride	四氯化矽		1% by Weight	REC Product.
508	7440-23-5	Sodium	鈉		1% by Weight	
509	68411-30-3	Sodium alkylbenzenesulfonate	烷基苯磺酸鈉		1% by Weight	
510	7681-38-1	Sodium bisulfate	硫酸氫鈉		1% by Weight	
511	7758-19-2	Sodium chlorite	亞氯酸鈉		1% by Weight	
512	16721-80-5	Sodium hydrosulfide	硫氫化鈉		1% by Weight	
513	1310-73-2	Sodium hydroxide	氫氧化鈉		1% by Weight	
514	7681-52-9	Sodium hypochlorite	次氯酸鈉		1% by Weight	
515	7681-57-4	Sodium metabisulfite	偏二亞硫酸鈉		1% by Weight	
516	6834-92-0	Sodium metasilicate	偏矽酸鈉		1% by Weight	
517	124-41-4	Sodium methyle	甲醇鈉		1% by Weight	
518	137-20-2	Sodium N-methyl-N-oleoyltaurate	N-甲基-N-油醯基牛磺酸鈉		1% by Weight	
519	15630-89-4	Sodium percarbonate	過碳酸鈉		1% by Weight	
520	10101-50-5	Sodium permanganate	過錳酸鈉		1% by Weight	
521	1313-82-2	Sodium sulfide	硫化鈉		1% by Weight	
522	5329-14-6	Sulfamic acid	磺胺酸		1% by Weight	
523	7446-09-5	Sulfur dioxide	二氧化硫		1% by Weight	
524	7446-11-9	Sulfur trioxide	三氧化硫		1% by Weight	
525	7664-93-9	Sulfuric acid	硫酸		1% by Weight	
526	61791-26-2	Tallow amine ethoxylated	乙氧化牛脂胺		1% by Weight	
527	5593-70-4	Tetrabutyl titanate	鈦酸四丁酯		1% by Weight	
528	112-57-2	Tetraethylenepentamine	四仲乙五胺		1% by Weight	
529	68-11-1	Thioglycolic acid	乙硫醇酸		1% by Weight	
530	7772-99-8	Tin(II) chloride	氯化錫(II)		1% by Weight	
531	53408-94-9	Tin(II) methanesulfonate	甲磺酸錫(II)		1% by Weight	
532	7550-45-0	Titanium tetrachloride	四氯化鈦		1% by Weight	
533	64665-57-2	Tolyltriazole sodium	甲基苯并三唑鈉		1% by Weight	
534	10025-78-2	Trichlorosilane	三氯矽烷		1% by Weight	REC Product. Intentionally contains this Chemical.
535	97-93-8	Triethylaluminum	三乙基鋁		1% by Weight	
536	143-22-6	Triethylene glycol monobutyl ether	三甘醇單丁醚		1% by Weight	
537	112-24-3	Triethylenetetramine	三仲乙四胺		1% by Weight	
538	1115-99-7	Triethylgallium	三乙基鎵		1% by Weight	
539	76-05-1	Trifluoroacetic acid	三氟乙酸		1% by Weight	
540	75-24-1	Trimethylaluminium	三甲基鋁		1% by Weight	
541	75-50-3	Trimethylamine	三甲胺		1% by Weight	
542	112-02-7	Trimethylhexadecylammonium chloride	氯化十六烷基三甲基銨		1% by Weight	
543	7778-53-2	Tripotassium orthophosphate	磷酸三鉀		1% by Weight	
544	7783-82-6	Tungsten hexafluoride	六氟化鎢		1% by Weight	
545	7646-85-7	Zinc chloride	氯化鋅		1% by Weight	
546	7733-02-0	Zinc sulfate	硫酸鋅		1% by Weight	
547	1341-49-7	Ammonium hydrogendifluoride	二氟氫化銨		1% by Weight	
548	96-49-1	Ethylene carbonate	碳酸仲乙酯		1% by Weight	
549	68002-97-1	Alcohols, C10-16, ethoxylated	乙氧化 C10-16 醇		1% by Weight	

CHINA MINISTRY OF LABOR Notice is hereby given, for the stipulation to revise the list of designated chemicals regulated by Article 2 of "Regulations Governing Designating and Handling of Priority Management Chemicals" (stipulation shall become effective from 1st, April 2022)

Source: <https://gazette.nat.gov.tw/egFront/detail.do?metaid=130052&log=detailLog>
Date of Last Update to List: 11/27/2022

附件 1 優先管理化學品之指定及運作管理辦法第 2 條第 2 款指定之化學品					
Annex 1 Priority Management of Chemicals Designated and Operational Management Procedures for Chemicals specified in Paragraph 2 of Article 2					
550	68439-50-9	Alcohols, C12-14, ethoxylated	乙氧化 C12-14 醇		1% by Weight
551	84133-50-6	Alcohols, C12-14-secondary, ethoxylated	乙氧化 C12-14 二級醇		1% by Weight
552	74499-34-6	Alcohols, C12-15, propoxylated	丙氧化 C12-15 醇		1% by Weight
553	68213-23-0	Alcohols, C12-18, ethoxylated	乙氧化 C12-18 醇		1% by Weight
554	68603-25-8	Alcohols, C8-10, ethoxylated propoxylated	乙氧化丙氧化 C8-10 醇		1% by Weight
555	68439-46-3	Alcohols, C9-11, ethoxylated	乙氧化 C9-11 醇		1% by Weight
556	68037-49-0	(C10-18)alkanesulfonic acid, sodium salt	C10-18 烷基磺酸鈉鹽		1% by Weight
557	90194-26-6	4-(C10-14)-Alkylbenzenesulfonic acid, calcium salt	4-(C10-14)-烷基苯磺酸鈣鹽		1% by Weight
558	70592-80-2	C10-16-Alkyldimethylamine oxide	C10-16-烷基二甲胺氧化物		1% by Weight
559	1745-81-9	2-Allylphenol	2-烯丙基苯酚		1% by Weight
560	10043-01-3	Aluminium sulfate	硫酸鋁		1% by Weight
561	12005-57-1	Aluminum calcium oxide	鋁鈣氧化物		1% by Weight
562	39290-78-3	Aluminum chloride hydroxide sulfate	氯化鋁基鋁硫酸鹽		1% by Weight
563	13530-50-2	Aluminum dihydrogen phosphate	磷酸二氫鋁		1% by Weight
564	24304-00-5	Aluminum nitride	氮化鋁		1% by Weight
565	11138-49-1	Aluminum sodium oxide	鋁鈉氧化物		1% by Weight
566	68439-72-5	Amines, C8-18 and C18-unsatd. alkyl, ethoxylated	乙氧化 C8-18 與 C18 不飽和烷基胺		1% by Weight
567	61791-14-8	Amines, coco alkyl, ethoxylated	乙氧化椰脂烷基胺		1% by Weight
568	68153-95-7	Amines, di-C12-18-alkyl	二-C12-18-烷基胺		1% by Weight
569	68131-73-7	Amines, polyethylenepoly-	聚亞乙基聚胺		1% by Weight
570	117-62-4	2-Amino-1,5-naphthalenedisulfonic acid	2-胺基-1,5-萘二磺酸		1% by Weight
571	5856-62-2	(+)-2-Amino-1-butanol	(+)-2-胺基-1-丁醇		1% by Weight
572	96-20-8	2-Amino-1-butanol	2-胺基-1-丁醇		1% by Weight
573	81-16-3	2-Amino-1-naphthalenesulfonic acid	2-胺基-1-萘磺酸		1% by Weight
574	88-21-1	2-Aminobenzene sulfonic acid	2-胺基苯磺酸		1% by Weight
575	616-30-8	3-Aminopropane-1,2-diol	3-胺基-1,2-丙二醇		1% by Weight
576	13822-56-5	(3-Aminopropyl)trimethoxysilane	(3-胺基丙基)三甲氧基矽烷		1% by Weight
577	919-30-2	3-Aminopropyltriethoxysilane	3-胺基丙基三乙氧基矽烷		1% by Weight
578	4418-61-5	5-Aminotetrazole	5-胺基四唑		1% by Weight
579	2235-54-3	Ammonium dodecyl sulfate	硫酸單十二酯銨鹽		1% by Weight
580	1336-21-6	Ammonium hydroxide	氫氧化銨		1% by Weight
581	2326-55-2	Barium hydroxide, monohydrate	氫氧化鋇一水合物		1% by Weight
582	98-11-3	Benzenesulfonic acid	苯磺酸		1% by Weight
583	139-07-1	Benzododecimum chloride	氯化十二烷基二甲基銨		1% by Weight
584	68424-85-1	Benzyl-C12-16-alkyldimethylammonium chloride	苄基-C12-16-烷基二甲基銨氯化物		1% by Weight
585	68391-01-5	Benzyl-C12-16-alkyldimethylammonium chloride	苄基-C12-18-烷基二甲基銨氯化物		1% by Weight
586	102561-46-6	Benzyltributylammonium 4-hydroxynaphthalene-1-sulfonate	4-萘基-1-萘磺酸 N,N,N',三丁基苯甲銨鹽		1% by Weight
587	52829-07-9	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	蓖麻酸雙(2,2,6,6-四甲基-4-哌啶)酯		1% by Weight
588	10563-26-5	1,2-Bis(3-aminopropylamino)ethane	1,2-雙(3-胺基丙胺基)乙烷		1% by Weight
589	143-23-7	Bis(hexamethylene)triamine	雙(六亞甲基)三胺		1% by Weight
590	61788-63-4	Bis(hydrogenated tallowalkyl)methylamine	二(氫化牛脂烷基)甲基胺		1% by Weight
591	82985-35-1	Bis(trimethoxysilylpropyl)amine	雙(3-三甲氧基丙基)胺		1% by Weight
592	52-51-7	2-Bromo-2-nitro-1,3-propanediol	2-溴-2-硝基-1,3-丙二醇		1% by Weight
593	16079-88-2	1-Bromo-3-chloro-5,5-dimethylhydantoin	1-溴-5-氯-5,5-二甲基海因		1% by Weight
594	110-60-1	Butane-1,4-diamine	1,4-丁二胺		1% by Weight
595	12788-93-1	Butyl acid phosphate	酸式磷酸丁酯		1% by Weight
596	1623-15-0	Butyl dihydrogen phosphate	磷酸單丁酯		1% by Weight
597	2372-21-6	O,O-tert-Butyl isopropyl monoperoxycarbonate	O,O-過氧碳酸三級丁酯異丙酯		1% by Weight
598	2409-55-4	2-tert-Butyl-4-methylphenol	2-三級丁基-4-甲酚		1% by Weight
599	109-73-9	Butylamine	丁胺		1% by Weight
600	69739-34-0	tert-Butyldimethylsilyl trifluoromethanesulfonate	三氟甲磺酸三級丁基二甲矽基酯		1% by Weight
601	594-19-4	tert-Butyllithium	三級丁基鋰		1% by Weight
602	88-60-8	6-tert-Butyl-m-cresol	6-三級丁基鄰甲酚		1% by Weight
603	89-72-5	o-sec-Butyl-phenol	鄰-第二丁酚		1% by Weight
604	110-65-6	1,4-Butylenediol	1,4-丁炔二醇		1% by Weight
605	96-48-0	γ-Butyrolactone	γ-丁內酯		1% by Weight
606	54060-92-3	C.I. Basic Yellow 28	C.I.鹼性黃 28		1% by Weight
607	7758-23-8	Calcium dihydrogenphosphate	磷酸二氫鈣		1% by Weight
608	7789-79-9	Calcium hypophosphite	次磷酸鈣		1% by Weight
609	10124-37-5	Calcium nitrate	硝酸鈣		1% by Weight
610	353-50-4	Carbonyl difluoride	二氟化羰基		1% by Weight
611	5994-61-6	N-(Carboxymethyl)-N-(phosphonomethyl)glycine	N-(羧甲基)-N-(膦酸甲基)甘氨酸		1% by Weight
612	12014-56-1	Cerium hydroxide	氫氧化鈰		1% by Weight
613	12336-95-7	Chromium hydroxide sulfate	硫酸羧鉻		1% by Weight
614	68140-01-2	Cocamidopropyl dimethylamide	胺基丙基二甲基椰脂醃胺		1% by Weight
615	61789-71-7	Cocoalkyl dimethylbenzylammonium chloride	椰脂烷基二甲基苄基銨氯化物		1% by Weight
616	3251-23-8	Copper nitrate	硝酸銅		1% by Weight
617	372-09-8	Cyanoacetic acid	氰乙酸		1% by Weight
618	2579-20-6	1,3-Cyclohexanedimethanamine	1,3-環己二甲胺		1% by Weight
619	12262-58-7	Cyclohexanone, peroxide	環己酮過氧化物		1% by Weight
620	91-17-8	Decahydronaphthalene	十氫萘		1% by Weight

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621	298-07-7	Di(2-ethylhexyl)phosphoric acid	二(2-乙基己基)磷酸		1% by Weight
622	124-02-7	Diallylamine	二烯丙胺		1% by Weight
623	6674-22-2	1,8-Diazabicyclo[5.4.0]undec-7-ene	1,8-二氮雙環[5.4.0]十一碳-7-烯		1% by Weight
624	3001-72-7	1,5-Diazobicyclo[4.3.0]non-5-ene	1,5-重氮雙環[4.3.0]壬-5-烯		1% by Weight
625	10222-01-2	2,2-Dibromo-3-nitropropionamide	2,2-二溴-3-氮基丙醯胺		1% by Weight
626	68937-72-4	C4-11 Dicarboxylic acids	C4-11 二羧酸		1% by Weight
627	68603-87-2	Dicarboxylic acids, C4-6	C4-6 二羧酸		1% by Weight
628	64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	4,5-二氯-2-正辛基-4-異噻唑啉-3-酮		1% by Weight
629	61789-77-3	Dicocodimethylammonium chloride	二椰脂二甲基銨氯化物		1% by Weight
630	538-75-0	N,N-Dicyclohexylcarbodiimide	二(環己亞胺)甲烷		1% by Weight
631	7173-51-5	Didecylmethylammonium chloride	氯化二癸二甲基銨		1% by Weight
632	3179-76-8	3-(Diethoxymethylsilyl)propylamine	3-(二乙氧基)甲基矽基丙胺		1% by Weight
633	2524-04-1	O,O-Diethyl phosphorochloridothioate	O,O-二乙基硫代磷酰氯		1% by Weight
634	96-10-6	Diethylaluminum chloride	氯化二乙基鋁		1% by Weight
635	120570-77-6	Diethylene glycol diformate	二乙二醇二甲酸酯		1% by Weight
636	557-20-0	Diethylzinc	二乙鋅		1% by Weight
637	593-85-1	Diguanidinium carbonate	碳酸胍		1% by Weight
638	92-44-4	2,3-Dihydroxynaphthalene	2,3-二羥萘		1% by Weight
639	1779-25-5	Diisobutylaluminum chloride	氯化二異丁基鋁		1% by Weight
640	108-18-9	Diisopropylamine	二異丙胺		1% by Weight
641	26762-93-6	Diisopropylbenzene hydroperoxide	過氧化二異丙苯		1% by Weight
642	120-20-7	2-(3,4-Dimethoxyphenyl)ethylamine	2-(3,4-二甲氧基苯基)乙胺		1% by Weight
643	2524-03-0	Dimethyl chlorothiophosphate	二甲基硫代磷酰氯		1% by Weight
644	80-73-9	1,3-Dimethyl-2-imidazolidinone	1,3-二甲基-2-咪唑啉酮		1% by Weight
645	2680-03-7	N,N-Dimethylacrylamide	N,N-二甲基丙烯醯胺		1% by Weight
646	1704-62-7	2-[2-(Dimethylamino)ethoxy]ethanol	2-[2-(二甲基胺基)乙氧基]乙醇		1% by Weight
647	7651-02-7	N-[3-(Dimethylamino)propyl]octadecamide	N-[3-(二甲基胺基)丙基]十八醯胺		1% by Weight
648	61788-93-0	Dimethylcooamine	二甲基椰脂胺		1% by Weight
649	98-94-2	Dimethylcyclohexylamine	二甲基環己胺		1% by Weight
650	1120-24-7	N,N-Dimethyldodecan-1-amine	N,N-二甲基癸-1-胺		1% by Weight
651	112-69-6	N,N-Dimethylhexadecylamine	N,N-二甲基-1-十六胺		1% by Weight
652	1118-92-9	N,N-Dimethyloctanamide	N,N-二甲基辛醯胺		1% by Weight
653	105-67-9	2,4-Dimethylphenol	2,4-二甲酚		1% by Weight
654	126-30-7	2,2-Dimethylpropane-1,3-diol	2,2-二甲基-1,3-丙二醇		1% by Weight
655	112-75-4	Dimethyltetradecylamine	二甲基十四胺		1% by Weight
656	4712-55-4	Diphenyl phosphonate	亞磷酸二苯酯		1% by Weight
657	80-10-4	Diphenyldichlorosilane	二苯二氯矽烷		1% by Weight
658	142-84-7	Dipropylamine	二正丙胺		1% by Weight
659	13870-28-5	Disodium disilicate	二矽酸二鈉		1% by Weight
660	10213-79-3	Disodium silicate, pentahydrate	矽酸二鈉五水合物		1% by Weight
661	61789-80-8	Ditallow dimethyl ammonium chloride	二牛油二甲基銨氯化物		1% by Weight
662	96-76-4	2,4-Di-tert-butylphenol	2,4-二叔丁基苯酚		1% by Weight
663	120-95-6	2,4-Di-tert-pentylphenol	2,4-二叔戊基苯酚		1% by Weight
664	1643-20-5	Dodecylmethylamine oxide	十二烷基二甲基胺氧化物		1% by Weight
665	9002-92-0	α-Dodecyl-ω-hydroxy-polyoxyethylene	α-十二基-ω-羥基聚氧乙烯		1% by Weight
666	37203-76-2	Ethyl phosphate	磷酸乙酯		1% by Weight
667	94-96-2	2-Ethyl-1,3-hexanediol	2-乙基-1,3-己二醇		1% by Weight
668	3586-55-8	(Ethylenedioxy)dimethanol	(仲乙二氧基)二甲醇		1% by Weight
669	12645-31-7	2-Ethylhexyl phosphate	磷酸 2-乙基己酯		1% by Weight
670	10421-48-4	Ferric nitrate	硝酸鐵		1% by Weight
671	13478-10-9	Ferrous chloride, tetrahydrate	氯化亞鐵四水合物		1% by Weight
672	13453-07-1	Gold trichloride	三氯化金		1% by Weight
673	21652-27-7	(Z)-2-(8-Heptadecenyl)-4,5-dihydro-1H-imidazole-1-ethanol	(Z)-2-(8-十七烯基)-4,5-二氫-1H-咪唑-1-乙醇		1% by Weight
674	111-14-8	Heptanoic acid	庚酸		1% by Weight
675	3031-66-1	3-Hexyne-2,5-diol	3-己炔-2,5-二醇		1% by Weight
676	10034-85-2	Hydriodic acid	氫碘酸		1% by Weight
677	1115-20-4	3-Hydroxy-2,2-dimethylpropyl 3-hydroxy-2,2-dimethylpropionate	3-羥基-2,2-二甲基丙酸 3-羥基-2,2-二甲基丙酯		1% by Weight
678	583-91-5	2-Hydroxy-4-(methylthio)butyric acid	2-羥基-4-甲硫基丁酸		1% by Weight
679	4065-45-6	2-Hydroxy-4-methoxybenzophenone-5-sulfonic acid	2-羥基-4-甲氧二苯基酮-5-磺酸		1% by Weight
680	1333-39-7	Hydroxybenzenesulfonic acid	羥基苯磺酸		1% by Weight
681	107-75-5	7-Hydroxycitronellal	7-羥香茅醛		1% by Weight
682	542-59-6	2-Hydroxyethyl acetate	乙酸 2-羥乙酯		1% by Weight
683	68140-00-1	N-(Hydroxyethyl) cocoamide	N-(羥乙基)椰脂醯胺		1% by Weight
684	61791-39-7	1-(2-Hydroxyethyl)-2-(tall oil alkyl)-2-imidazoline	1-(2-羥乙基)-2-(松油烷基)-2-咪唑啉		1% by Weight
685	111-57-9	N-(2-Hydroxyethyl)stearamide	N-(2-羥乙基)硬脂醯胺		1% by Weight
686	10025-77-1	Iron chloride, hexahydrate	氯化鐵六水合物		1% by Weight
687	79-30-1	Isonitryl chloride	異丁醯氯		1% by Weight
688	26896-18-4	Isononanoic acid	壬基酸		1% by Weight
689	1745-89-7	4,4'-Isopropylidenebis[2-allylphenol]	4,4'-亞異丙基雙[2-烯丙基酚]		1% by Weight
690	1310-66-3	Lithium hydroxide, monohydrate	氫氧化鋰一水合物		1% by Weight
691	865-34-9	Lithium methoxide	甲氧鋰		1% by Weight
692	12057-24-8	Lithium oxide	氧化鋰		1% by Weight
693	12031-80-0	Lithium peroxide	過氧化鋰		1% by Weight
694	141-82-2	Malonic acid	丙二酸		1% by Weight

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695	107-96-0	3-Mercaptopropionic acid	3-巰硫丙酸		1% by Weight
696	5332-73-0	3-Methoxypropylamine	3-甲氧基丙胺		1% by Weight
697	80-47-7	1-Methyl-1-(4-methylcyclohexyl)ethyl hydroperoxide	1-甲基-1-(4-甲基環己基)乙基過氧化氫		1% by Weight
698	88477-37-6	2,2'-[[(Methyl-1H-benzotriazol-1-yl)methyl]imino]bisethanol	2,2'-[[[(甲基-1H-苯并三唑-1-基)甲基]亞胺基]雙乙醇		1% by Weight
699	107-86-8	3-Methyl-2-butenal	3-甲基-2-丁烯醛		1% by Weight
700	760-93-0	2-Methyl-2-Propenoic acid anhydride	2-甲基-2-丙烯酸酐		1% by Weight
701	104-15-4	p-Methylbenzenesulfonic acid	對甲苯磺酸		1% by Weight
702	6192-52-5	4-Methylbenzenesulfonic acid monohydrate	4-甲基苯磺酸一水合物		1% by Weight
703	95-71-6	Methylhydroquinone	甲基氫醌		1% by Weight
704	616-47-7	1-Methylimidazole	1-甲基咪唑		1% by Weight
705	917-54-4	Methyl lithium	甲基鋰		1% by Weight
706	676-58-4	Methylmagnesium chloride	氯化甲基鎂		1% by Weight
707	109-02-4	Methylmorpholine	甲基嗎福林		1% by Weight
708	15520-10-2	2-Methylpentamethylenediamine	2-甲基戊二胺		1% by Weight
709	1070-03-7	Mono(2-ethylhexyl)phosphate	磷酸單(2-乙基己基)酯		1% by Weight
710	571-60-8	1,4-Naphthalenediol	1,4-萘二醇		1% by Weight
711	112-03-8	Octadecyltrimethylammonium chloride	氯化十八烷基三甲基銨		1% by Weight
712	28805-58-5	Octenylsuccinic acid	辛烯基丁二酸		1% by Weight
713	26530-20-1	2-n-Octyl-4-isothiazolin-3-one	2-正辛基-4-異噁唑啉-3-酮		1% by Weight
714	2687-94-7	N-(N-Octyl)-2-pyrrolidinone	N-正辛基-2-吡咯啉酮		1% by Weight
715	1806-26-4	p-Octylphenol	對辛基苯酚		1% by Weight
716	112-90-3	Oleylamine	油胺		1% by Weight
717	5117-12-4	4-(1-Oxo-2-propenyl)-morpholine	4-(1-側氧-2-丙烯基)【口末】琳		1% by Weight
718	57472-68-1	Oxybis(methyl-2,1-ethanediyl) diacrylate	二丙烯酸氧代雙(甲基-2,1-乙二基)酯		1% by Weight
719	73807-15-5	Palm kernel oil diethanolamide	棕櫚仁油二乙醇醯胺		1% by Weight
720	2403-89-6	1,2,2,6,6-Pentamethyl-4-piperidinol	1,2,2,6,6-五甲基-4-哌啉醇		1% by Weight
721	3030-47-5	Pentamethyldiethylenetriamine	五甲基二仲乙三胺		1% by Weight
722	7601-90-3	Perchloric acid	過氯酸		1% by Weight
723	936-49-2	2-Phenyl-2-imidazoline	2-苯基咪唑啉		1% by Weight
724	1571-33-1	Phenylphosphonic acid	苯膦酸		1% by Weight
725	68954-77-8	Phosphoric acid, di-C8-18-alkyl esters	二(C8-18 烷基)磷酸酯		1% by Weight
726	1623-24-1	Phosphoric acid, mono(1-methylethyl)ester	磷酸單(1-甲基乙基)酯		1% by Weight
727	13598-36-2	Phosphorous acid	亞磷酸		1% by Weight
728	1314-85-8	Phosphorus sesquisulfide	三硫化四磷		1% by Weight
729	88-95-9	Phthaloyl dichloride	1,2-苯二甲醯二氯		1% by Weight
730	103-76-4	2-(1-Piperazinyl)ethanol	2-(1-哌【口井】基)乙醇		1% by Weight
731	110-89-4	Piperidine	哌啶		1% by Weight
732	58253-49-9	Poly(oxy-1,2-ethanediyl), α,α'-[(9-octadecen-1-ylimino)di-2,1-ethanediyl]bis(ω-hydroxy-	α,α'-[(9-十八烯基亞胺)-2,1-亞乙基]-雙-(ω-羥基)聚氧乙烯		1% by Weight
733	39423-51-3	Polyetheramine T403	聚醚胺 T403		1% by Weight
734	7440-09-7	Potassium	鉀		1% by Weight
735	13967-50-5	Potassium cyanoaurate	氰金酸鉀		1% by Weight
736	7789-23-3	Potassium fluoride	氟化鉀		1% by Weight
737	7789-29-9	Potassium hydrogendifluoride	二氟化鉀		1% by Weight
738	31795-24-1	Potassium methylsilanetriolate	甲基矽三醇鉀鹽		1% by Weight
739	70693-62-8	Potassium peroxymonosulfate	過氧單硫酸鉀		1% by Weight
740	10058-23-8	Potassium peroxydisulfate	過氧化二硫酸鉀鹽		1% by Weight
741	1312-76-1	Potassium silicate	矽酸鉀		1% by Weight
742	13463-41-7	Pyritone zinc	吡硫鎂		1% by Weight
743	63449-41-2	Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	苄基 C8-18 烷基二甲基四級銨氯化物		1% by Weight
744	61790-47-4	Rosin amine	松香胺		1% by Weight
745	85536-14-7	4-C10-13-sec-Alkylbenzenesulfonic acid	4-C10-13-二級烷基苯磺酸		1% by Weight
746	506-61-6	Silver potassium cyanide	氰化鉀銀		1% by Weight
747	10294-26-5	Silver sulfate	硫酸銀		1% by Weight
748	126-92-1	Sodium 2-ethylhexyl sulfate	硫酸 2-乙基己酯鈉		1% by Weight
749	1302-42-7	Sodium aluminate	鋁酸鈉		1% by Weight
750	141-52-6	Sodium ethoxide	乙氧鈉		1% by Weight
751	6362-79-4	Sodium hydrogen-5-sulfoisophthalate	5-磺酸間苯二甲酸單鈉鹽		1% by Weight
752	1333-83-1	Sodium hydrogendifluoride	二氟化鈉		1% by Weight
753	629-25-4	Sodium laurate	月桂酸鈉		1% by Weight
754	68585-47-7	Sodium lauryl sulfate	十二烷基硫酸鈉		1% by Weight
755	13517-24-3	Sodium metasilicate nonahydrate	偏矽酸鈉九水合物		1% by Weight
756	5188-07-8	Sodium methanethiolate	甲硫醇鈉		1% by Weight
757	73296-89-6	Sodium mono-C12-16-alkyl sulfate	硫酸單-C12-16-烷基酯鈉		1% by Weight
758	137-16-6	Sodium N-lauroylsarcosinate	N-月桂醯肌胺鈉		1% by Weight
759	10101-89-0	Sodium orthophosphate dodecahydrate	十二水合磷酸鈉		1% by Weight
760	1344-09-8	Sodium silicate	矽酸鈉		1% by Weight
761	865-48-5	Sodium tert-butoxide	三級丁氧鈉		1% by Weight
762	7646-78-8	Stannic chloride	氯化錫		1% by Weight
763	10025-69-1	Stannous chloride dihydrate	氯化亞錫二水合物		1% by Weight
764	10476-85-4	Strontium chloride	氯化銩		1% by Weight
765	10042-76-9	Strontium nitrate	硝酸銩		1% by Weight
766	1314-11-0	Strontium oxide	氧化銩		1% by Weight
767	68608-15-1	Sulfonic acids, alkane, sodium salts	磺酸烷烴鈉鹽		1% by Weight
768	85711-69-9	Sulfonic acids, C13-17-sec-alkane, sodium salts	C13-17-二級烷磺酸鈉鹽		1% by Weight

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 Date of Last Update to List: 11/27/2022

附件 1 優先管理化學品之指定及運作管理辦法第 2 條第 2 款指定之化學品					
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769	5965-83-3	5-Sulfosalicylic acid dihydrate	5-磺基水楊酸二水合物		1% by Weight
770	5138-18-1	Sulfosuccinic acid	磺丁二酸		1% by Weight
771	7791-25-5	Sulfuryl chloride	硫酰二氯		1% by Weight
772	8011-76-5	Superphosphates	過磷酸		1% by Weight
773	61790-33-8	Tallow alkylamine	牛脂胺		1% by Weight
774	61788-45-2	Tallow alkylamine, hydrogenated	氫化牛脂烷基胺		1% by Weight
775	61791-53-5	N-Tallow(alkyl)-1,3-propanediamine dioleate	N-牛脂烷基-1,3-丙二胺二油酸鹽		1% by Weight
776	68955-53-3	(C12-14)tert-Alkylamines	(C12-14)三級烷基胺		1% by Weight
777	169896-41-7	tert-Butylimidodis(triethylamido)tantalum	三級丁基亞胺基參(二乙胺基)鉭		1% by Weight
778	12004-88-5	Tetraaluminium calcium heptaoxide	四鉍鈣七氧化物		1% by Weight
779	1643-19-2	Tetrabutylammonium bromide	溴化四丁基銨		1% by Weight
780	7691-02-3	1,1,3,3-Tetramethyl-1,3-divinyl-disilazane	1,1,3,3-四甲基-1,3-二乙烯基二矽氮		1% by Weight
781	2403-88-5	2,2,6,6-Tetramethyl-4-piperidinol	2,2,6,6-四甲基-4-哌啉醇		1% by Weight
782	36768-62-4	2,2,6,6-Tetramethyl-4-piperidylamine	2,2,6,6-四甲基-4-哌啉胺		1% by Weight
783	140-66-9	4-(1,1,3,3-Tetramethylbutyl)phenol	4-(1,1,3,3-四甲基丁基)苯酚		1% by Weight
784	111-18-2	N,N,N',N'-Tetramethylhexamethylenediamine	N,N,N',N'-四甲基-1,6-己二胺		1% by Weight
785	64-02-8	Tetrasodium ethylenediaminetetraacetate	伸乙二胺四乙酸四鈉		1% by Weight
786	2664-63-3	4,4'-Thiodiphenol	4,4'-硫二苯酚		1% by Weight
787	60-24-2	Thioglycol	硫甘醇		1% by Weight
788	7719-09-7	Thionyl chloride	氯化亞硫酸		1% by Weight
789	3982-91-0	Thiophosphoryl trichloride	三氯化硫磷酰		1% by Weight
790	89-83-8	Thymol	瑞香酚		1% by Weight
791	7488-55-3	Tin(II) sulfate	硫酸錫(II)		1% by Weight
792	7705-07-9	Titanium trichloride	三氯化鈦		1% by Weight
793	93-69-6	o-Tolyl biguanide	鄰甲苯縮二胍		1% by Weight
794	17689-77-9	Triacetoxymethylsilane	三乙酰氧基乙基矽烷		1% by Weight
795	102-70-5	Triallylamine	三烯丙胺		1% by Weight
796	1116-70-7	Tributylaluminum	三丁基鋁		1% by Weight
797	12075-68-2	Triethyldialuminum trichloride	三氯化三乙基二鋁		1% by Weight
798	280-57-9	Triethylenediamine	三伸乙二胺		1% by Weight
799	100-99-2	Triisobutylaluminum	三(異丁基)鋁		1% by Weight
800	2768-02-7	Trimethoxyvinylsilane	三甲氧基乙烯基矽烷		1% by Weight
801	3282-30-2	Trimethylacetyl chloride	三甲基乙醯氯		1% by Weight
802	75-77-4	Trimethylchlorosilane	三甲基氯矽烷		1% by Weight
803	25620-58-0	Trimethylhexamethylene diamine	三甲基六亞甲基二胺		1% by Weight
804	3302-10-1	3,5,5-Trimethylhexanoic acid	3,5,5-三甲基己酸		1% by Weight
805	2416-94-6	2,3,6-Trimethylphenol	2,3,6-三甲基苯酚		1% by Weight
806	90-72-2	2,4,6-Tris[(dimethylamino)methyl]phenol	2,4,6-參(二甲基胺基)苯酚		1% by Weight
807	7601-54-9	Trisodium orthophosphate	磷酸三鈉		1% by Weight
808	75-94-5	Vinyl trichlorosilane	乙烯基三氯矽烷		1% by Weight
809	25321-41-9	Xylenesulfonic acid	二甲苯磺酸		1% by Weight
810	95-87-4	2,5-Xylenol	2,5-二甲苯酚		1% by Weight
811	576-26-1	2,6-Xylenol	2,6-二甲苯酚		1% by Weight
812	1300-71-6	Xylenol	二甲苯酚		1% by Weight
813	68457-79-4	Zinc dialkyl dithiophosphate	二硫代磷酸二烷基鋅		1% by Weight
814	10139-47-6	Zinc iodide	碘化鋅		1% by Weight
815	7446-20-0	Zinc sulfate heptahydrate	硫酸鋅七水合物		1% by Weight
816	7446-19-7	Zinc sulfate monohydrate	硫酸鋅一水合物		1% by Weight
817	123-91-1	1,4-Dioxane	1,4-二氧陸圓		1% by Weight
818	107-07-3	2-Chloroethanol	2-氯乙醇		1% by Weight
819	6484-52-2	Ammonium nitrate	硝酸銨		1% by Weight
820	628-63-7	Amyl acetate	乙酸戊酯		1% by Weight
821	105-60-2	Caprolactam	己內醯胺		1% by Weight
822	1563-66-2	Carbofuran	加保扶		1% by Weight
823	1333-86-4	Carbon black	碳黑		1% by Weight
824	91465-08-6	Cyhalothrin	三氯氯菊酯		1% by Weight
825	141-66-2	Dicetophos	雙特松		1% by Weight
826	2238-07-5	Diglycidyl ether	縮水甘油醚		1% by Weight
827	123-92-2	Isoamyl acetate	乙酸異戊酯		1% by Weight
828	10377-60-3	Magnesium nitrate	硝酸鎂		1% by Weight
829	95-50-1	o-Dichlorobenzene	鄰-二氯苯		1% by Weight
830	23135-22-0	Oxamyl	歐殺滅		1% by Weight
831	140-29-4	Phenylacetone	苯乙酮		1% by Weight
832	7786-34-7	Phosdrin (Mevinphos)	美文松		1% by Weight
833	151-50-8	Potassium cyanide	氰化鉀		1% by Weight
834	143-33-9	Sodium cyanide	氰化鈉		1% by Weight
835	16893-85-9	Sodium fluorosilicate	氟矽酸鈉		1% by Weight
836	1330-20-7	Xylenes	二甲苯		1% by Weight
837	60304-36-1	Aluminum potassium fluoride	氟化鉀鋁		1% by Weight
838	15096-52-3	Aluminum sodium fluoride	氟鋁化鈉		1% by Weight
839	2778-42-9	1,3-Bis(1-isocyanato-1-methylethyl)benzene	1,3-雙(1-異氰酸基-1-甲基乙基)苯		1% by Weight
840	91788-83-9	1,2,3,4-Butanetetracarboxylic acid, tetrakis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester	1,2,3,4-丁四甲酸四(1,2,2,6,6-五甲基-4-哌啉基)酯		1% by Weight
841	13477-34-4	Calcium nitrate tetrahydrate	四水合硝酸鈣		1% by Weight
842	2921-88-2	Chlorpyrifos	陶斯松		1% by Weight

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Date of Last Update to List: 11/27/2022

附件 1 優先管理化學品之指定及運作管理辦法第 2 條第 2 款指定之化學品					
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843	7440-74-6	Indium	銦		1% by Weight
844	7553-56-2	Iodine	碘		1% by Weight
845	2235-00-9	N-Vinylcaprolactam	N-乙烯基己內醯胺		1% by Weight
846	8052-41-3	Stoddard solvent	斯陶大溶劑		1% by Weight
847	13775-53-6	Trisodium hexafluoroaluminate	六氟鋁酸鈉		1% by Weight
848	11070-44-3	4-Methyl tetrahydro phthalic anhydride	甲基四氫鄰苯二甲酸酐		1% by Weight
849	107-15-3	Ethylenediamine	乙二胺		1% by Weight
850	111-30-8	Glutaraldehyde	戊二醛		1% by Weight
851	25550-51-0	Methylhexahydrophthalic anhydride	甲基六氫酞酸酐		1% by Weight
852	85-43-8	Tetrahydrophthalic anhydride	四氫酞酸酐		1% by Weight
853	552-30-7	Trimellitic anhydride	1,2,4-苯三甲酸酐		1% by Weight
854	8001-54-5	Benzalkonium chloride	氯化苄三鉀烴鎂		1% by Weight
855	109-76-2	1,3-Diaminopropane	1,3-二胺基丙烷		1% by Weight
856	19438-60-9	Methyl hexahydrophthalic anhydride	甲基六氫酞酸酐		1% by Weight
857	78-90-0	1,2-Propylenediamine	1,2-丙二胺		1% by Weight
858	30674-80-7	2-Isocyanatoethyl methacrylate	甲基丙烯酸異氰酸乙酯		1% by Weight
859	1760-24-3	3-(2-Aminoethylamino)propyltrimethoxysilane	3-(2-胺乙基)-胺丙基三甲氧基矽烷		1% by Weight
860	85-42-7	Hexahydrophthalic anhydride	六氫酞酸酐		1% by Weight
861	23996-25-0	2-Ethyl-4-methylimidazole-1-propionitrile	2-乙基-4-甲基-1H-咪唑-1-丙腈		1% by Weight
862	15396-00-6	3-Isocyanatopropyltrimethoxysilane	3-異氰酸基丙基三甲氧基矽烷		1% by Weight
863	26590-20-5	1,2,3,6-Tetrahydromethylphthalic anhydride	1,2,3,6-四氫甲基酞酸酐		1% by Weight
864	24801-88-5	Triethoxy(3-isocyanatopropyl)silane	三乙氧基(3-異氰酸丙基)矽烷		1% by Weight
865	108-31-6	Maleic anhydride	順-丁烯二酐		1% by Weight
866	3634-83-1	1,3-Bis(isocyanatomethyl)benzene	1,3-雙(異氰酸基甲基)苯		1% by Weight
867	141-43-5	Ethanolamine	乙醇胺		1% by Weight
868	74091-64-8	2,5(or 2,6)-Diisocyanatomethylbicyclo[2.2.1]heptane	2,5(或 2,6)-雙(異氰酸根甲基)雙環[2.2.1]庚烷		1% by Weight
869	1308-38-9	Chromium(III) oxide	氧化鉻(III)		1% by Weight
870	106-50-3	p-Phenylenediamine	對-苯二胺		1% by Weight
871	7790-91-2	Chlorine trifluoride	三氟化氯		1% by Weight
872	108-77-0	Cyanuric chloride	三聚氯化氰		1% by Weight
873	124-40-3	Dimethylamine	二甲胺		1% by Weight
874	7664-39-3	Hydrogen fluoride	氟化氫		1% by Weight
875	818-61-1	Hydroxyethyl acrylate	丙烯酸羟乙酯		1% by Weight
876	25584-83-2	Hydroxypropyl acrylate	丙烯酸羟丙酯		1% by Weight
877	79-41-4	Methacrylic acid	甲基丙烯酸		1% by Weight
878	4685-14-7	Paraquat	巴拉刈		1% by Weight
879	75-59-2	Tetramethylammonium hydroxide	氫氧化四甲銨		1% by Weight
880	55406-53-6	3-Iodo-2-propynyl butylcarbamate	丁胺甲酸 3-碘-2-丙炔酯		1% by Weight
881	21324-40-3	Lithium hexafluorophosphate(1-)	六氟磷酸鋰		1% by Weight
882	7681-49-4	Sodium fluoride	氟化鈉		1% by Weight
883	79-04-9	Chloroacetyl chloride	氯乙醯氯		1% by Weight
884	75-04-7	Ethylamine	乙胺		1% by Weight
885	10035-10-6	Hydrogen bromide	溴化氫		1% by Weight
886	7722-84-1	Hydrogen peroxide	過氧化氫		1% by Weight
887	75-44-5	Phosgene	光氣		1% by Weight
888	10025-87-3	Phosphorus oxychloride	氧氯化磷		1% by Weight
889	7761-88-8	Silver nitrate	硝酸銀		1% by Weight

註 1：本辦法附表 2 屬致癌物質或生殖細胞致突變性物質或生殖毒性物質第 1 級者，該等物質或占其重量百分之一以上之混合物，不論其年運作總量多寡，均應向中央主管機關報請備查，爰另載明於備註欄。
註 2：依本辦法第 2 條第 2 款指定之化學品，含上述列舉物占其重量百分之一以上之混合物。

"Note 1: If Schedule 2 of this procedure is a carcinogenic substance or a mutagenic substance of germ cells or a toxic substance of reproduction, such substances or mixtures accounting for more than 1% of their weight, regardless of their total annual operation, shall be reported to the central competent authority for reference, and shall be separately stated in the remarks.
Note 2: The chemicals specified in paragraph 2 of Article 2 of these Measures contain mixtures of more than 1% of the weight of the above listed substances. "

附件 2 優先管理化學品之指定及運作管理辦法第 2 條第 3 款指定之化學品						
Annex 2 Priority Management of Chemicals Designated and Operational Management Procedures for Chemicals specified in Section 3 of Article 2						
序號	CAS No.	English Name	中文名稱	備註	Limit	notes from REC
1	685-63-2	1,1,2,3,4,4-Hexafluoro-1,3-butadiene	1,1,2,3,4,4-六氟-1,3-丁二烯		1% by Weight	
2	3006-86-8	1,1-Di(t-butylperoxy)cyclohexane	1,1-二(三級丁基過氧)環己烷		1% by Weight	
3	6731-36-8	1,1-Di-(tert-butyl peroxy)-3,3,5-trimethylcyclohexane	1,1-二(三級丁基過氧)-3,3,5-三甲基環己烷		1% by Weight	
4	75-37-6	1,1-Difluoroethane	1,1-二氟乙烷		1% by Weight	
5	75-38-7	1,1-Difluoroethylene	1,1-二氟乙烯		1% by Weight	
6	540-59-0	1,2-Dichloroethylene	1,2-二氯乙烯		1% by Weight	
7	25155-25-3	1,4-Di-(2-tert-butylperoxyisopropyl) benzene	1,4-二(2-三級丁基過氧異丙基)苯		1% by Weight	
8	25167-67-3	1-Butene	1-丁烯		1% by Weight	
9	109-67-1	1-Pentene	1-戊烯		1% by Weight	
10	616-23-9	2,3-Dichloro-1-propanol	2,3-二氯-1-丙醇		1% by Weight	
11	118-79-6	2,4,6-Tribromophenol	2,4,6-三溴酚		1% by Weight	
12	1879-09-0	2,4-Dimethyl-6-tert-butylphenol	2,4-二甲基-6-三級丁基苯酚		1% by Weight	
13	123-54-6	2,4-Pentanedione	2,4-戊二酮		1% by Weight	

CHINA MINISTRY OF LABOR Notice is hereby given, for the stipulation to revise the list of designated chemicals regulated by Article 2 of "Regulations Governing Designating and Handling of Priority Management Chemicals" (stipulation shall become effective from 1st, April 2022)

Source: <https://gazette.nat.gov.tw/egFront/detail.do?metaid=130052&log=detailLog>
Date of Last Update to List: 11/27/2022

附件 1 優先管理化學品之指定及運作管理辦法第 2 條第 2 款指定之化學品						
Annex 1 Priority Management of Chemicals Designated and Operational Management Procedures for Chemicals specified in Paragraph 2 of Article 2						
14	78-92-2	2-Butanol	2-丁醇			1% by Weight
15	75-29-6	2-Chloropropane	2-氯丙烷			1% by Weight
16	557-98-2	2-Chloropropene	2-氯丙烯			1% by Weight
17	75-86-5	2-Hydroxy-isobutyronitrile	2-羥基異丁腈			1% by Weight
18	583-39-1	2-Mercaptobenzimidazole	2-巯苯并咪唑			1% by Weight
19	16219-75-3	5-Ethylidene-2-norbornene	5-亞乙基-2-降冰片烯			1% by Weight
20	67-64-1	Acetone	丙酮			1% by Weight
21	74-86-2	Acetylene	乙炔			1% by Weight
22	107-11-9	Allylamine	烯丙胺			1% by Weight
23	96-05-9	Allyl methacrylate	甲基丙烯酸烯丙酯			1% by Weight
24	12125-01-8	Ammonium fluoride	氟化銨			1% by Weight
25	78-67-1	Azodisobutyronitrile	偶氮二異丁腈			1% by Weight
26	10361-37-2	Barium chloride	氯化鋇			1% by Weight
27	100-47-0	Benzonitrile	苯甲腈			1% by Weight
28	94-36-0	Benzoyl peroxide	過氧化二苯甲醯			1% by Weight
29	106-97-8	Butane	丁烷			1% by Weight
30	123-86-4	Butyl acetate	乙酸丁酯			1% by Weight
31	590-18-1	cis-2-Butene	順-2-丁烯			1% by Weight
32	91-64-5	Coumarin	香豆素			1% by Weight
33	108-93-0	Cyclohexanol	環己醇			1% by Weight
34	68479-98-1	Diethyltoluenediamine	二乙基甲苯二胺			1% by Weight
35	75-10-5	Di fluoromethane	二氟甲烷			1% by Weight
36	624-92-0	Dimethyl disulfide	二硫二甲烷			1% by Weight
37	115-10-6	Dimethyl ether	二甲醚			1% by Weight
38	628-96-6	Dinitroethyleneglycol	二硝基乙二醇			1% by Weight
39	74-84-0	Ethane	乙烷			1% by Weight
40	141-78-6	Ethyl acetate	乙酸乙酯			1% by Weight
41	60-29-7	Ethyl ether	乙醚			1% by Weight
42	75-08-1	Ethyl mercaptan	乙硫醇			1% by Weight
43	74-85-1	Ethylene	乙烯			1% by Weight
44	2807-30-9	Ethylene glycol propyl ether	乙二醇丙基醚			1% by Weight
45	1333-74-0	Hydrogen gas	氫氣			1% by Weight
						REC Product. Intentionally contains this Chemical.
46	7783-06-4	Hydrogen sulfide	硫化氫			1% by Weight
47	7782-61-8	Iron trinitrate nonahydrate	硝酸鐵九水合物			1% by Weight
48	123-51-3	Isoamyl alcohol	異戊醇			1% by Weight
49	75-28-5	Isobutane	異丁烷			1% by Weight
50	110-19-0	Isobutyl acetate	乙酸異丁酯			1% by Weight
51	115-11-7	Isobutylene	異丁烯			1% by Weight
52	78-78-4	Isopentane	異戊烷			1% by Weight
53	108-21-4	Isopropyl acetate	乙酸異丙酯			1% by Weight
54	67-63-0	Isopropyl alcohol	異丙醇			1% by Weight
55	7439-95-4	Magnesium powder	鎂粉			1% by Weight
56	10265-92-6	Methamidophos	甲胺磷			1% by Weight
57	74-82-8	Methane	甲烷			1% by Weight
58	16752-77-5	Methomyl	滅多威			1% by Weight
59	79-20-9	Methyl acetate	乙酸甲酯			1% by Weight
60	78-93-3	Methyl ethyl ketone	丁酮			1% by Weight
61	107-31-3	Methyl formate	甲酸甲酯			1% by Weight
62	126-98-7	Methylacrylonitrile	甲基丙烯腈			1% by Weight
63	25639-42-3	Methylcyclohexanol	甲基環己醇			1% by Weight
64	583-60-8	Methylcyclohexanone	甲基環己酮			1% by Weight
65	64475-85-0	Mineral spirit (Mineral thinner, petroleum spirit, white spirit)	礦油精			1% by Weight
66	3710-84-7	N,N-Diethylhydroxylamine	N,N-二乙基脛胺			1% by Weight
67	7783-54-2	Nitrogen trifluoride	三氟化氮			1% by Weight
68	10024-97-2	Nitrous oxide	一氧化二氮			1% by Weight
69	91-15-6	o-Phthalodinitrile	鄰-二腈苯			1% by Weight
70	7782-44-7	Oxygen gas	氧氣			1% by Weight
71	1910-42-5	Paraquat dichloride	二氯百草枯			1% by Weight
72	100-02-7	p-Nitrophenol	對硝基酚			1% by Weight
73	74-98-6	Propane	丙烷			1% by Weight
74	109-60-4	Propyl acetate	乙酸丙酯			1% by Weight
75	115-07-1	Propylene	丙烯			1% by Weight
76	4080-31-3	Quaternium-15	四級銨鹽-15			1% by Weight
77	106-51-4	Quinone	醌			1% by Weight
78	7803-62-5	Silicon hydride (Silane)	四氫化矽			1% by Weight
						REC Product. Intentionally contains this Chemical.
79	7775-09-9	Sodium chlorate	氯酸鈉			1% by Weight
80	7775-14-6	Sodium dithionite	二亞硫酸鈉			1% by Weight
81	7632-00-0	Sodium nitrite	亞硝酸鈉			1% by Weight
82	3006-82-4	t-Butyl peroxy-2-ethylhexanoate	過氧-2-乙基己酸三級丁酯			1% by Weight
83	26748-41-4	t-Butyl peroxyneodecanoate	過氧新癸酸三級丁酯			1% by Weight
84	614-45-9	tert-Butyl peroxybenzoate	過氧苯甲酸三級丁酯			1% by Weight
85	75-76-3	Tetramethylsilane	四甲基矽烷			1% by Weight

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Date of Last Update to List: 11/27/2022

附件 1 優先管理化學品之指定及運作管理辦法第 2 條第 2 款指定之化學品						
Annex 1 Priority Management of Chemicals Designated and Operational Management Procedures for Chemicals specified in Paragraph 2 of Article 2						
86	624-64-6	trans-2-Butene	反-2-丁烯			1% by Weight
87	87-90-1	Trichloroisocyanuric acid	三氯異三聚氰酸			1% by Weight
88	1445-79-0	Trimethylgallium	三甲基鎵			1% by Weight
89	3385-78-2	Trimethylindium	三甲基銦			1% by Weight
90	8006-64-2	Turpentine	松節油			1% by Weight
91	7440-66-6	Zinc powder	鋅粉			1% by Weight
92	13361-32-5	Allyl cyanoacetate	氰乙酸烯丙酯			1% by Weight
93	13963-57-0	Aluminum acetylacetonate	乙醯丙酮鋁			1% by Weight
94	15545-97-8	2,2'-Azobis(4-methoxy-2,4-dimethylpentanenitrile)	2,2'-偶氮雙(4-甲氧基-2,4-二甲基戊腈)			1% by Weight
95	10326-27-9	Barium chloride, dihydrate	氯化鋇二水合物			1% by Weight
96	12069-69-1	Basic copper carbonate	鹼式碳酸銅			1% by Weight
97	366-18-7	Bipyridine	聯吡啶			1% by Weight
98	553-26-4	4,4'-Bipyridyl	4,4'-聯吡啶			1% by Weight
99	895-85-2	Bis(4-methylbenzoyl)peroxide	雙(4-甲基苯甲酰基)過氧化物			1% by Weight
100	13122-18-4	tert-Butyl 3,5,5-trimethylperoxyhexanoate	3,5,5-三甲基過氧己酸三級丁基酯			1% by Weight
101	97-88-1	Butyl methacrylate	甲基丙烯酸丁酯			1% by Weight
102	107-71-1	tert-Butyl peracetate	過氧乙酸三級丁基酯			1% by Weight
103	63-25-2	Carbaryl	加保利			1% by Weight
104	55285-14-8	Carbosulfan	丁基加保扶			1% by Weight
105	15263-52-2	Cartap	培丹			1% by Weight
106	6283-25-6	2-Chloro-5-nitroaniline	2-氯-5-硝基苯胺			1% by Weight
107	69-09-0	Chlorpromazine hydrochloride	氯丙嗎吩鹽酸鹽			1% by Weight
108	10380-28-6	Copper 8-quinolinol	快得寧			1% by Weight
109	56-72-4	Coumaphos	蠅毒磷			1% by Weight
110	294-93-9	12-Crown-4	12-冠醚-4			1% by Weight
111	10031-43-3	Cupric nitrate trihydrate	硝酸銅			1% by Weight
112	110-82-7	Cyclohexane	環己烷			1% by Weight
113	52315-07-8	Cypermethrin	賽滅寧			1% by Weight
114	24424-99-5	Di(tert-butyl) carbonate	貳(三級丁基)碳酸酯			1% by Weight
115	999-21-3	Diallyl maleate	順丁烯二酸二烯丙基酯			1% by Weight
116	131-17-9	Diallyl phthalate	鄰苯二甲酸二烯丙酯			1% by Weight
117	19287-45-7	Diborane	二硼烷			1% by Weight
118	608-33-3	2,6-Dibromophenol	2,6-二溴苯酚			1% by Weight
119	34893-92-0	1,3-Dichloro-5-isocyanatobenzene	1,3-二氯-5-異氰酸基苯			1% by Weight
120	2893-78-9	Dichloroisocyanuric acid, sodium salt	二氯異三聚氰酸鈉鹽			1% by Weight
121	91-66-7	N,N-Diethylaniline	N,N-二乙基苯胺			1% by Weight
122	627-54-3	Diethyl telluride	二乙基碲			1% by Weight
123	4074-88-8	Diethylene glycol diacrylate	二甘醇二丙烯酸酯			1% by Weight
124	624-48-6	Dimethyl maleate	順丁烯二酸二甲酯			1% by Weight
125	78-63-7	2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane	2,5-二甲基-2,5-貳(三級丁基過氧)己烷			1% by Weight
126	71750-79-3	Dimethylsiloxane, 3-[2-(aminoethyl)amino]propyl methyl	3-[2-(胺乙基)胺基]丙基甲基二甲基矽氧烷			1% by Weight
127	106842-44-8	Dimethylsiloxane, 3-[(2-aminoethyl)amino]-2-isobutyl methyl	3-[2-(胺乙基)胺基]-2-異丁基甲基二甲基矽氧烷			1% by Weight
128	1590-87-0	Disilane	二矽烷			1% by Weight
129	563-12-2	Ethion	愛殺松			1% by Weight
130	78-27-3	1-Ethynylcyclohexanol	1-乙炔基環己醇			1% by Weight
131	7782-65-2	Germanium tetrahydride	四氫化鍺			1% by Weight
132	465-73-6	Isodrin	異艾劑			1% by Weight
133	12108-13-3	Manganese 2-methylcyclopentadienyl tricarbonyl	三羰基-2-甲基環戊二烯基錳			1% by Weight
134	2032-65-7	Mercaptodimethur	滅賜克			1% by Weight
135	2935-90-2	Methyl 3-mercaptopropionate	3-巰基丙酸甲酯			1% by Weight
136	74-99-7	Methyl acetylene	甲基乙炔			1% by Weight
137	80-62-6	Methyl methacrylate	甲基丙烯酸甲酯			1% by Weight
138	563-45-1	3-Methyl-1-butene	3-甲基-1-丁烯			1% by Weight
139	2820-51-1	Nicotine hydrochloride	菸鹼鹽酸鹽			1% by Weight
140	1113-02-6	Ormethoate	敵滅松			1% by Weight
141	301-12-2	Oxydemeton-methyl	滅多松			1% by Weight
142	591-93-5	1,4-Pentadiene	1,4-戊二烯			1% by Weight
143	109-66-0	Pentane	戊烷			1% by Weight
144	51630-58-1	Phenvalerate	芬化利			1% by Weight
145	92-43-3	1-Phenyl-3-pyrazolidone	1-苯基-3-吡嗪啉酮			1% by Weight
146	7758-05-6	Potassium iodate	碘酸鉀			1% by Weight
147	7758-09-0	Potassium nitrite	亞硝酸鉀			1% by Weight
148	107-98-2	Propylene glycol monomethyl ether	丙二醇甲醚			1% by Weight
149	108-65-6	Propylene glycol monomethyl ether acetate	丙二醇甲醚乙酸酯			1% by Weight
150	130-86-9	Protopine	原阿片鹼			1% by Weight
151	7601-89-0	Sodium perchlorate	過氯酸鈉			1% by Weight
152	3689-24-5	Sulfotep	硫特普			1% by Weight
153	13071-79-9	Terbufos	托福松			1% by Weight
154	21564-17-0	2-(Thiocyanatomethylthio)benzothiazole	2-(異硫基甲硫基)苯并噻唑			1% by Weight
155	545-06-2	Trichloroacetoneitrile	三氯乙腈			1% by Weight
156	41814-78-2	Tricyclazole	三環唑			1% by Weight
157	420-46-2	1,1,1-Trifluoroethane	1,1,1-三氟乙烷			1% by Weight

CHINA MINISTRY OF LABOR Notice is hereby given, for the stipulation to revise the list of designated chemicals regulated by Article 2 of "Regulations Governing Designating and Handling of Priority Management Chemicals" (stipulation shall become effective from 1st, April 2022)

Source: <https://gazette.nat.gov.tw/egFront/detail.do?metaid=130052&log=detailLog>

Date of Last Update to List: 11/27/2022

附件 1 優先管理化學品之指定及運作管理辦法第 2 條第 2 款指定之化學品					
Annex 1 Priority Management of Chemicals Designated and Operational Management Procedures for Chemicals specified in Paragraph 2 of Article 2					
158	603-36-1	Triphenylantimony	三苯基銻		1% by Weight
159	557-75-5	Vinyl alcohol	乙烯醇		1% by Weight
160	107-25-5	Vinyl methyl ether	乙烯基甲基醚		1% by Weight
161	95-47-6	o-Xylene	鄰二甲苯		1% by Weight
162	108-38-3	m-Xylene	間二甲苯		1% by Weight
163	106-42-3	p-Xylene	對二甲苯		1% by Weight
註：依本辦法第 2 條第 3 款指定之化學品，含危害成分具上述列舉物之混合物。					
Note: The chemicals specified in paragraph 3 of Article 2 of these Measures contain mixtures of hazardous ingredients with the above listed substances.					

Source: <https://echa.europa.eu/candidate-list-table>

Date of Last Update to List: 11/27/2022

Substance name	Source	Reference	EC No.	CAS No.	Date of inclusion	Limit	notes from
AZO based materials	A-RM005-03-103	A8			11/27/2022	Not intentionally added	
Certain Ethylene Glycol Ethers (including Ethylene glycol dimethyl ether (EGDME))	A-RM005-03-103	A9			11/27/2022	Not intentionally added	
Hexabromocyclododecane (HBCDD)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
Other brominated organic compounds	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.09% by weight (w/w)	
Polychlorinated terphenyls (PCT)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.005% by weight (w/w)	
Tris(2-chloroethyl) phosphate (TCEP), Tris(2-chloro-1-methylethyl) phosphate (TCPP), Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
Perchlorates	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.006 ppm	
Polyvinyl chloride (PVC) and PVC blends	A-RM005-03-103	A16			11/27/2022	Intentionally added	
Other chlorinated organic compounds	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.09% by weight (w/w)	
Hydrofluorocarbon (HFC), Perfluorocarbon (PFC), Sulfur hexafluoride (SF6)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	Intentionally added	
Hydrochlorofluorocarbons (HCFC)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	Intentionally added	
Perfluorooctane sulfonates (PFOS)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	Intentionally added	
Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
Dibutyltin (DBT) compounds	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
Diocetyl tin (DOT) compounds	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
2-ethylhexyl 10-ethyl-4,4-diethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-diethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[[2-ethylhexyl]oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
Beryllium and its compounds (including Beryllium oxide and Beryllium copper)	A-RM005-03-103	A22			11/27/2022	0.1% by weight (w/w)	
Cobalt dichloride	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	Intentionally added	
Diarsenic trioxide, Diarsenic pentaoxide	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
Bis (2-ethylhexyl)phthalate, Dibutyl phthalate, Benzyl butyl phthalate, Diisobutyl phthalate	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
Di-isononyl phthalate, Di-isodecyl phthalate, Di-n-octyl phthalate, Di-n-hexyl phthalate, 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich, 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters, Bis(2-methoxyethyl) phthalate, Diisopentylphthalate, 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear, N-pentyl-isopentylphthalate, Dipentyl phthalate, "1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear "	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
Formaldehyde	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	Intentionally added	
Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	Intentionally added	
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	Intentionally added	
2-[2H-benzotriazol-2-yl]-4,6-ditertpentylphenol (UV-328)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
Dimethyl fumarate (DMF)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
Polycyclic aromatic hydrocarbons (PAHs)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.0001% by weight (w/w)	
Boric acid, specific sodium borates	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
4-(1,1,3,3-tetramethylbutyl) phenol	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
Bis(2-methoxyethyl) ether	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
N,N-dimethylacetamide (DMAC)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
Triethyl phosphate (TXP)	SS-00259 (14th Edition)	SS-00259 (14th Edition)			8/1/2015	0.1% by weight (w/w)	
Phenol, isopropylated phosphate (3:1) (PIP (3:1))	A-RM005-03-103	A24			11/27/2022	Not Intentionally added	
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	A-RM005-03-103	A25			11/27/2022	Not Intentionally added	
Hexachlorobutadiene (HCBd)	A-RM005-03-103	A26			11/27/2022	Not Intentionally added	
Pentachlorothiophenol (PCTP)	A-RM005-03-103	A27			11/27/2022	Not Intentionally added	
Perfluorooctyl sulfonates and other long chain Perfluoroalkyl sulfonate (PFAS): Rf-Sulfonate-Hetero atom (typically N or O), Rf: CnF2n+1, where n>=8	A-RM005-03-103	A28			11/27/2022	Not Intentionally added	
Perfluorooctanoic acid, and other long chain Perfluoroalkyl carboxylate (PFAC): Rf-Carboxylate-Hetero atom (typically N or O), Rf: CnF2n+1, where n>=7	A-RM005-03-103	A29			11/27/2022	Not Intentionally added	
Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs), their salts and C9-C14 PFCA-related substances	A-RM005-03-103	A30			11/27/2022	Not Intentionally added	
Perfluorohexane-1-sulphonic acid (PFHxS), Perfluorohexanoic acid (PFHxA), their salts or related substances	A-RM005-03-103	A31			11/27/2022	Not Intentionally added	
C5-C7 Perfluoroalkyl substances (PFASs):	A-RM005-03-103	A32			11/27/2022	Not Intentionally added	
Tetramethylammonium Hydroxide (TMAH)	A-RM005-03-103	C-1		75-59-2	11/27/2022	<2.38%	