## **SAFETY DATA SHEET**

NanoSi

## Section 1. Identification

Product identifier	: NanoSi
Product code	: Not available.
Chemical name	: silicon
Other means of identification	: Silicon Filter Powder, Silicon Cyclone Fines
Product type	: Powder.
Relevant identified uses of t	he substance or mixture and uses advised against
Product use	: Industrial use
Area of application	: Industrial applications.
Manufacturer	: REC Silicon Inc. 119140 Rick Jones Way Silver Bow, Montana 59750 United State of America 406-496-9877 Email: recsiliconSDS@recsilicon.com 3322 Road N Northeast Moses Lake, Washington 98837 United State of America 509-766-9299
e-mail address of person responsible for this SDS	: recsiliconSDS@recsilicon.com
Emergency telephone number (with hours of operation)	: CHEMTREC, U.S. : 1-800-424-9300 CCN# 403 CHEMTREC International: +1 (703) 527-3887
Castian O. Harand	identification

## Section 2. Hazard identification

Classification of the substance or mixture	: H228 H320	FLAMMABLE SOLIDS - Category 2 EYE IRRITATION - Category 2B
GHS label elements Hazard pictograms		
Signal word	: Warning	

: H228 - Flammable solid. H320 - Causes eye irritation.

Precautionary statements

**Hazard statements** 

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## Section 2. Hazard identification

Prevention	<ul> <li>P280 - Wear protective gloves: &gt; 8 hours (breakthrough time): Use chemical-resistant, impervious gloves Wear protective clothing. Wear eye or face protection: Recommended: safety glasses with side-shields.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
Response	: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: Not applicable.
Disposal	: Not applicable.

## Section 3. Composition/information on ingredients

Substance/mixture	: Substance
Chemical name	: silicon
Other means of identification	: Silicon Filter Powder, Silicon Cyclone Fines

#### **CAS number/other identifiers**

CAS number : 7440-21	1-3		
Ingredient name	Other names	% (w/w)	CAS number
silicon	-	100	7440-21-3

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-aid measures

#### **Description of necessary first aid measures**

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

### Section 4. First-aid measures

Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important sympto	oms/effects, acute and delayed
Potential acute health	<u>effects</u>
Eye contact	: Causes eye irritation.
Inhalation	<ul> <li>Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.</li> </ul>
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/	<u>symptoms</u>
Eye contact	: Adverse symptoms may include the following: irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.

Indication of immediate med	lical attention and special treatment needed, if necessary	
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>	
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	<ul> <li>Use dry chemical powder.</li> <li>Use dry chemical powder. Use special powder suitable for fires involving combustible metals (Class D).</li> </ul>
Unsuitable extinguishing media	: Do not use water jet. / carbon dioxide.
Specific hazards arising from the chemical	: Flammable solid. May form explosible dust-air mixture if dispersed. Evolves hydrogen on contact with water.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: metal oxide/oxides Hydrogen.
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## Section 5. Fire-fighting measures

Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	-	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

Personal precautions, protect	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions Methods and materials for co	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Small spill	: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. May form explosible dust-air mixture if dispersed. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

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## Section 7. Handling and storage

Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
silicon	CA British Columbia Provincial (Canada, 6/2022). [Particles (Insoluble or Poorly Soluble) Not Otherwise Classified] Notes: The 8-hour TWA listed in the Table is for the total dust. The substance also has an 8-hour TWA of 3 mg/m3 for the respirable fraction. TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust TWA: 3 mg/m <sup>3</sup> 8 hours. Form: respirable fraction CA Quebec Provincial (Canada, 6/2022). TWAEV: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m <sup>3</sup> 15 minutes. TWA: 10 mg/m <sup>3</sup> 8 hours.

#### **Biological exposure indices**

None known.

Appropriate engineering : controls	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure : controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	

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## Section 8. Exposure controls/personal protection

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Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. If operating conditions cause high dust concentrations to be produced, use dust goggles. Recommended: safety glasses with side-shields
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Use chemical-resistant, impervious gloves.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>	
Physical state	: Solid. [Powder.]
Color	: Bluish-grey. / Black. / Brown. / Gray.
Odor	: Odorless.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: 88°C (190.4°F) [EU A.1]
Boiling point, initial boiling point, and boiling range	: 2355°C (4271°F) [EU A.2]
Flash point	: Not applicable.
Burning rate	: 0.83 mm/s (0.033 inch/s)
Evaporation rate	: Not available.
Flammability	: Not available.
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## Section 9. Physical and chemical properties and safety characteristics

Lower and upper explosion limit/flammability limit	:	Not applicable.			
Vapor pressure	1	78 to 100 kPa (585.05 to 7	8 to 100 kPa (585.05 to 750.06 mm Hg) [50°C (122°F)] [EU A.4]		
Relative vapor density	1	lot applicable.			
Relative density	1	2.33	2.33		
Density	:	0.3 to 1 g/cm <sup>3</sup> [25°C (77°F	)] [EU A.3]		
Solubility(ies)	1	Media	Result		
		water	Not soluble		
Solubility in water	:	0.0000052 g/l [OECD 29]			
Miscible with water	:	No.			
Partition coefficient: n- octanol/water	:	57 to 77			
Auto-ignition temperature	1	>400°C (>752°F)			
Decomposition temperature	1	Not available.			
Viscosity	:	Not applicable.			
Flow time (ISO 2431)	1	Not available.			
Molecular weight	1	28.09 g/mole			
Particle characteristics					
Median particle size	1	Not available.			
Other information					
Physical/chemical properties comments	:	No additional information.			

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials Reactive or incompatible with the following materials: acids, alkalis and moisture. Do not allow contact with water. / moisture

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English (US)

NanoSi

## Section 10. Stability and reactivity

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
silicon	LD50 Oral	Rat	3160 mg/kg	-	
Conclusion/Summary	: There is no known acute effect after over-exposure to this product.				

#### Conclusion/Summary Irritation/Corrosion

Product/ingredient name	Resu	ult	Species	Score	Exposure	Observatio	n
silicon	Eyes	s - Mild irritant	Rabbit	-	3 mg	-	
Conclusion/Summary				•	- <b>I</b>	•	
Skin	: No	ot available.					
Eyes	: No	ot available.					
Respiratory	: No	ot available.					
Sensitization							
Conclusion/Summary							
Skin	: No	ot available.					
Respiratory	: No	ot available.					
<u>Mutagenicity</u>							
<b>Conclusion/Summary</b>	: No	ot available.					
Carcinogenicity							
<b>Conclusion/Summary</b>	: No	ot available.					
Reproductive toxicity							
<b>Conclusion/Summary</b>	: No	ot available.					
Teratogenicity							
<b>Conclusion/Summary</b>	: No	ot available.					
Specific target organ toxic	ity (sin	<u>gle exposure)</u>					
Not available.							
Specific target organ toxici	ity (rep	eated exposure)	1				
Not available.							
Aspiration hazard							
Not available.							
nformation on the likely	: Ro	outes of entry anti	cipated: Oral, Der	mal. Inhalatio	n. Eves.		
outes of exposure		,	- <b>- - - - - - - - - -</b>	,	, _ <b>_</b>		
otential acute health effect	<u>s</u>						
Eye contact	: Ca	auses eye irritatio	n.				
Inhalation			e concentrations a itation of the nose			nded exposure	
Skin contact	: No	o known significar	nt effects or critica	l hazards.			
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## Section 11. Toxicological information

#### : No known significant effects or critical hazards. Ingestion Symptoms related to the physical, chemical and toxicological characteristics Eye contact : Adverse symptoms may include the following: irritation watering redness Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing Skin contact : No specific data. Ingestion : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure **Potential immediate** : Not available. effects **Potential delayed effects** : Not available. Long term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Potential chronic health effects General : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Carcinogenicity : No known significant effects or critical hazards. **Mutagenicity** : No known significant effects or critical hazards. **Reproductive toxicity** : No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

		(mg/kg)	(gases)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
silicon	3160	N/A	N/A	N/A	N/A

## Section 12. Ecological information

#### Toxicity Conclusion/Summary

: Not available.

#### Persistence and degradability

**Conclusion/Summary** : Not available.

#### **Bioaccumulative potential**

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#### Canada

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Section 12. Ecological information					
Product/ingredient name	LogPow	BCF	Potential		
silicon	57 to 77	-	high		

#### Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

TDG Classification	DOT Classification	IMDG	ΙΑΤΑ
UN1346	UN1346	UN1346	UN1346
SILICON POWDER, AMORPHOUS	Silicon powder, amorphous	SILICON POWDER, AMORPHOUS	Silicon powder, amorphous
4.1	4.1	4.1	4.1
Ш	ш	111	111
No.	No.	No.	No.
	UN1346 SILICON POWDER, AMORPHOUS 4.1	UN1346 SILICON POWDER, AMORPHOUS 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	UN1346UN1346UN1346SILICON POWDER, AMORPHOUSSilicon powder, amorphousSILICON POWDER, AMORPHOUS4.14.14.1IIIIIIIII

**Additional information** 

TDG Classification	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.20-2.22 (Class 4). <u>Explosive Limit and Limited Quantity Index</u> 5 <u>Passenger Carrying Road or Rail Index</u> 25					
DOT Classification	Limited quantity Yes. Packaging instruction Exceptions: 151. Non-bulk: 213. Bulk: 240. Quantity limitation Passenger aircraft/rail: 25 kg. Cargo aircraft: 100 kg. Special provisions A1, IB8, IP3, T1, TP33					
IMDG	: <u>Emergency schedules</u> F-A, S-G <u>Special provisions</u> 32					
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## Section 14. Transport information

ΙΑΤΑ	: <u>Quantity limitation</u> Passenger and Cargo Aircraft: 25 kg. Packaging instructions: 446. Cargo Aircraft Only: 100 kg. Packaging instructions: 449. Limited Quantities - Passenger Aircraft: 10 kg. Packaging instructions: Y443. <u>Special provisions</u> A54, A803
Special precautions for user	: <b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to IMO instruments	: Not available.

## Section 15. Regulatory information

<u>Canadian lists</u>
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oundulum noto							
Canadian NPRI	:	This material is not listed.					
CEPA Toxic substances	:	This material is not listed.					
Canada inventory	:	This material is listed or exempted.					
International regulations							
Chemical Weapon Convention List Schedules I, II & III Chemicals							
Not listed.							
Montreal Protocol Not listed.							
Stockholm Convention on Persistent Organic Pollutants							
Not listed.							
Rotterdam Convention on Prior Informed Consent (PIC) Not listed.							

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

## Section 16. Other information

#### History

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Prepared by	: Sphera
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals HPR = Hazardous Products Regulations IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
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## Section 16. Other information

N/A = Not available UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
FLAMMABLE SOLIDS - Category 2	Expert judgment
EYE IRRITATION - Category 2B	On basis of test data

#### References

: HPR = Hazardous Products Regulations

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.