

# **Safety Data Sheet**

### **Section 1. Identification**

Product identifier	: Interpon PolyZinc 560
	BL103K
Other means of identification	: PZ560
Product type	: Powder.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Electrostatic coating for use in industrial plants	

	Supplier's details	: Akzo Nobel Pty Limited 51 McIntyre Road Sunshine North Victoria 3020 Australia Tel: (03) 9313 4555 Fax: (03) 9311 9141
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Emergency telephone	: 24 hour Emergency Telephone No. 1800 680 071
number (with hours of	For Poisons Advice telephone 131 126 For Advice to Doctors & Hospitals only
operation)	

### Section 2. Hazard(s) identification

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Classification of the	: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
substance or mixture	SKIN SENSITIZATION - Category 1

#### **GHS label elements**

Hazard pictograms

Signal word	: WARNI	NG			
Hazard statements		s serious eye irritation. use an allergic skin reactio	on.		
Precautionary statement	<u>s</u>				
Prevention	hands t	rotective gloves. Wear eye o horoughly after handling. Co ne workplace.			
Response	before ı Rinse c	SKIN: Wash with plenty of so reuse. If skin irritation or rasl autiously with water for seve sy to do. Continue rinsing. If	h occurs: Get medic ral minutes. Remove	al attention. IF IN EYE	ËS: sent
Storage	: Not app	olicable.			
Disposal		e of contents and container ir ernational regulations.	n accordance with all	local, regional, nationa	al
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Supplemental label elements	:	Not applicable.
Other hazards which do not result in classification	:	Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

### Section 3. Composition and ingredient information

Substance/mixture	:	Mixture
		BL103K
Other means of	:	PZ560
identification		

#### CAS number/other identifiers

CAS number	: Not applicable.
EC number	: Mixture.

Ingredient name	% (w/w)	CAS number
zinc oxide	≥1.1 - <3	1314-13-2
bisphenol A	≥1 - <3	80-05-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment 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. 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 with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 symptoms/effects, acute and delayed

Potential acute health effe		
Eye contact	Causes serious eye irritation.	
Inhalation	xposure to airborne concentrations above statutory or recommended exposure mits may cause irritation of the nose, throat and lungs.	
Skin contact	May cause an allergic skin reaction.	
Ingestion	No known significant effects or critical hazards.	
<u>Over-exposure signs/symp</u>	<u>s</u>	
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing	
Skin contact	Adverse symptoms may include the following: irritation redness	
Ingestion	No specific data.	
Indication of immediate me	attention and special treatment needed, if necessary	
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
Specific treatments	No specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. may be dangerous to the person providing aid to give mouth-to-mouth resuscita Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	

### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media Suitable extinguishing media	: Use dry chemical powder.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Fine dust clouds may form explosive mixtures with air.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
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.
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### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel		
For emergency responders	:	If specialised 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	:	Avoid dispersal of spilt 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).
Methods and material for con	ntai	nment and cleaning up
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 the 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. 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. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
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.



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**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 wellventilated 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls and personal protection

<u>Control parameters</u> Occupational exposure lin	its		
zinc oxide	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m³ 8 hours. Form: Dust STEL: 10 mg/m³ 15 minutes. Form: Fume TWA: 5 mg/m³ 8 hours. Form: Fume		
bisphenol A	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m <sup>3</sup> 8 hours. Form: inhalable dust		
Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour 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, vapour 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 measu	ires		
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. Contaminated work clothing should not be allowed out of the workplace. 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.		
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.		



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Body protection	<ul> <li>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.</li> </ul>
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	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	:	Solid. [Powder.]
Colour	:	Not available.
Odour	:	Odourless.
Odour threshold	:	Not available.
рН	:	Not applicable.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Closed cup: Not applicable.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	20 - 70 g/m <sup>3</sup>
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Vapour pressure	-	Not available.
Vapour density	:	Not available.
Relative density	:	1.2 to 1.9 [ISO 8130-2/-3]
Solubility	:	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-	:	Not available.
octanol/water		
Auto-ignition temperature	:	450 to 600°C (842 to 1112°F)
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Minimum ignition energy (mJ)	:	5 to 20
		In operations where the powder is recovered for reuse, the average particle size may change and this in turn can lead to an alteration in MIE.

### 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.



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 earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials
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
zinc oxide	LC50 Inhalation Dusts and mists LD50 Dermal	Rat Rat - Male, Female	>5700 mg/m³ >5000 mg/kg	4 hours -
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
bisphenol A	LC50 Inhalation Dusts and mists	Rat - Male, Female	>0.17 mg/l ***TO BE TRANSLATED***	6 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	3600 mg/kg 3700 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
zinc oxide	Eyes - Mild irritant	Rabbit	-	-	-

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
zinc oxide	skin	Guinea pig	Not sensitizing
bisphenol A	skin	Human	Sensitising

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
bisphenol A	Category 3	Not applicable.	Respiratory tract irritation
Specific target organ toxicity (repeated exposure)			



Not available.

#### **Aspiration hazard**

Not available.

#### Information on the likely : Not available. routes of exposure

#### Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
General	:	Repeated or prolonged inhalation of dust ma Once sensitized, a severe allergic reaction r

General	: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

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Not available.

### Section 12. Ecological information

**Toxicity** 

Product/ingredient name	Result	Species	Exposure
zinc oxide	Acute EC50 0.14 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 1.7 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1.79 mg/l Fresh water	Fish - Danio rerio	96 hours
	Chronic NOEC 0.024 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC >0.54 mg/l Fresh water	Fish - Danio rerio	32 days
bisphenol A	Acute EC50 2.73 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 1.1 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 10.2 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1.1 mg/l Marine water	Crustaceans - Americamysis bahia	96 hours
	Acute LC50 9.4 mg/l Marine water	Fish - Menidia menidia	96 hours
	Acute LC50 4.6 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic EC10 1.36 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic EC10 0.4 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Chronic NOEC 0.025 mg/l Marine water		328 days
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Daphnia magna	21 days

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
bisphenol A	-	89 % - 28 days		-	-
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
bisphenol A	3.4	<67	low

#### <u>Mobility in soil</u>

Soil/water partition coefficient (Koc)	: Not available.
Other advarage offects	. No known oignifiaant offe

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



### Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	ADG	ADR/RID	IMDG	ΙΑΤΑ
UN number	UN3077	UN3077	UN3077	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc powder - zinc dust (stabilized), zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc powder - zinc dust (stabilized), zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc powder - zinc dust (stabilized), zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc powder - zinc dust (stabilized), zinc oxide)
Transport hazard class(es)	9	9	9	9
Packing group	Ш	111	111	111
Environmental hazards	Yes.	Yes.	Yes.	Yes.
Additional information	The product is not regulated as a dangerous good when transported by road or rail in either an IBC, or in other container types if ≤500 kg. The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.	This product is not regulated as a dangerous good when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ , provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4. 1.1.4 to 4.1.1.8. <b>Tunnel code</b> (E)	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4. 1.1.4 to 4.1.1.8. <b>IMDG Code</b> <b>Segregation group</b> 7 - Heavy metals and their salts (including their organometallic compounds) 15 - Powdered metals	This product is not regulated as a dangerous good when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ , provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.



Special precautions for user : Transport within user's premises: 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** : Not available. to Annex II of MARPOL 73/78 and the IBC Code

### Section 15. Regulatory information

#### Standard Uniform Schedule of Medicine and Poisons

Not regulated. Model Work Health and Safety Regulations - Scheduled Substances No listed substance

Australia inventory (AICS) : All components are listed or exempted.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

#### Rotterdam Convention on Prior Inform Consent (PIC) Not listed.

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

Not listed.

International lists	
National inventory	
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: Not determined.
Japan	: Not determined.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: Not determined.
United States	: All components are listed or exempted.

### Section 16. Any other relevant information

#### **History**

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Date of issue/Date of revision



Key to abbreviations	: ADG = Australian Dangerous Goods ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL 73/78 = International Convention for the Prevention of Pollution From
	Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	NOHSC = National Occupational Health and Safety Commission
	SUSMP = Standard Uniform Schedule of Medicine and Poisons
	UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
<b>y</b> = ,	Calculation method Calculation method

**References** : Not available.

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.