

# J-B Weld Professional Size J-B Weld Company LLC

Version No: 1.3

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **08/22/2023**Print Date: **08/22/2023**S.GHS.USA.EN

#### **SECTION 1 Identification**

Product Identifier	
Product name	J-B Weld Professional Size
Synonyms	8281 (J-B Weld Professional Size) Part A
Other means of identification	Not Available

#### Recommended use of the chemical and restrictions on use

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	J-B Weld Company LLC
Address	400 CMH Road TX 75482 United States
Telephone	903-885-7696
Fax	Not Available
Website	WWW.JBWeld.com
Email	info@JBWeld.com

#### **Emergency phone number**

Association / Organisation	InfoTrac
Emergency telephone numbers	Transportation Emergencies: 800-535-5053 or (24 hours)
Other emergency telephone numbers	Poison Control Centers: Medical Emergencies 800-222-1222 (24 hours)

#### SECTION 2 Hazard(s) identification

#### Classification of the substance or mixture



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification | Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1A, Serious Eye Damage/Eye Irritation Category 2A

#### Label elements

Hazard pictogram(s)



Signal word Warning

#### Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

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#### Hazard(s) not otherwise classified

Carbon Black (CAS # 1333-86-4) and Quartz (CAS # 14808-60-7) are classified as a carcinogen in its inhalable form. Since the powder in this product is not inhalable, the product itself is not classified as a carcinogen in the form presented.

#### Precautionary statement(s) Prevention

Precautionary statement(s) Prevention	
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.

## Precautionary statement(s) 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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

#### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name
25068-38-6*	26.5	bisphenol A diglycidyl ether polymer
9003-36-5*	4.65	bisphenol F diglycidyl ether copolymer
2530-83-8*	0.75	gamma-glycidoxypropyltrimethoxysilane
1333-86-4	0.1	carbon black
1318-59-8*	0.16	Chlorite
16389-88-1*	0.16	Dolomite
546-93-0*	0.16	Magnesite.
14807-96-6*	7.66	Talc
1317-65-3*	41.12	<u>Limestone</u>
14808-60-7*	0.41	Quartz
7732-18-5	0.42	water
2425-79-8*	3.85	1.4-butanediol diglycidyl ether
67762-90-7	0.35	silica amorphous
65997-17-3	2	glass, oxide
7439-89-6	11	iron

#### **SECTION 4 First-aid measures**

#### Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Nash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

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#### Most important symptoms and effects, both acute and delayed

See Section 11

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 Fire-fighting measures**

#### **Extinguishing media**

Metal dust fires need to be smothered with sand, inert dry powders.

DO NOT USE WATER, CO2 or FOAM

▶ DO NOT use halogenated fire extinguishing agents.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility

▶ Reacts with acids producing flammable / explosive hydrogen (H2) gas

#### Special protective equipment and precautions for fire-fighters

## Fire Fighting

- Alert Fire Department and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves in the event of a fire.
- When silica dust is dispersed in air, firefighters should wear inhalation protection as hazardous substances from the fire may be adsorbed on the silica particles.

NLY

▶ When heated to extreme temperatures, (>1700 deg.C) amorphous silica can fuse.

### Fire/Explosion Hazard

- ▶ DO NOT disturb burning dust. Explosion may result if dust is stirred into a cloud, by providing oxygen to a large surface of hot metal.
- When silica dust is dispersed in air, firefighters should wear inhalation protection as hazardous substances from the fire may be adsorbed on the silica particles.
- ▶ When heated to extreme temperatures, (>1700 deg.C) amorphous silica can fuse.

Decomposition may produce toxic fumes of:

silicon dioxide (SiO2)

metal oxides

May emit corrosive fumes

#### **SECTION 6 Accidental release measures**

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

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	Clean up all spills immediately. Avoid contact with skin and eyes.
Major Spills	Minor hazard. ► Clear area of personnel.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 Handling and storage**

#### Precautions for safe handling

1 reductions for safe narrating	
Safe handling	Avoid all personal contact, including inhalation.      Wear protective clothing when risk of exposure occurs.
Other information	Store in original containers.     Keep containers securely sealed.

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	r keep containers securely seared.	
Conditions for safe storage, including any incompatibilities		
Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> </ul>	
Storage incompatibility	The substance may be or contains a 'metalloid' The following elements are considered to be metalloids; boron,silicon, germanium, arsenic, antimony, tellurium and (possibly) polonium The electronegativities and ionisation energies of the metalloids are between those of the metals and nonmetals, so the metalloids exhibit characteristics of both classes. The reactivity of the metalloids depends on the element with which they are reacting.  Many metals may incandesce, react violently, ignite or react explosively upon addition of concentrated nitric acid.  Silicas:  react with hydrofluoric acid to produce silicon tetrafluoride gas react with xenon hexafluoride to produce explosive xenon trioxide reacts exothermically with oxygen difluoride, and explosively with chlorine trifluoride (these halogenated materials are not commonplace industrial materials) and other fluorine-containing compounds may react with fluorine, chlorates	

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- re incompatible with strong oxidisers, manganese trioxide, chlorine trioxide, strong alkalis, metal oxides, concentrated orthophosphoric acid, vinyl acetate
- ▶ may react vigorously when heated with alkali carbonates.

Avoid strong acids, bases.

Metals exhibit varying degrees of activity. Reaction is reduced in the massive form (sheet, rod, or drop), compared with finely divided forms.

Finely divided metal powders develop pyrophoricity when a critical specific surface area is exceeded; this is ascribed to high heat of oxide formation on exposure to air.

- ▶ Safe handling is possible in relatively low concentrations of oxygen in an inert gas.
- Many metals in elemental form react exothermically with compounds having active hydrogen atoms (such as acids and water) to form flammable hydrogen gas and caustic products.
   Elemental metals may react with azo/diazo compounds to form explosive products.

#### **SECTION 8 Exposure controls / personal protection**

#### **Control parameters**

Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	bisphenol A diglycidyl ether polymer	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	bisphenol A diglycidyl ether polymer	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	bisphenol A diglycidyl ether polymer	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	bisphenol A diglycidyl ether polymer	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	bisphenol A diglycidyl ether polymer	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Limits (PELs) Table Z-1	carbon black	Carbon black	3.5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	carbon black	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	carbon black	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	carbon black	Carbon black	3.5 mg/m3	Not Available	Not Available	Ca; TWA 0.1 mg PAHs/m3 [Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)] See Appendix A See Appendix C
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Chlorite	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Chlorite	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Chlorite	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure Limits (PELs) Table Z-3	Chlorite	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
JS NIOSH Recommended Exposure Limits (RELs)	Chlorite	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
JS OSHA Permissible Exposure Limits (PELs) Table Z-1	Magnesite	Magnesite- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Magnesite	Magnesite- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Magnesite	Magnesite - total	10 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Magnesite	Magnesite - respirable	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Talc	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Talc	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Talc	Silicates (less than 1% crystalline silica): Soapstone	20 mppcf	Not Available	Not Available	Not Available

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Source	Ingredient	Material name	TWA	STEL	Peak	Notes
	mgredient	Silicates (less than 1%	TWA .	SIEL	reak	110103
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Talc	crystalline silica): Talc (containing asbestos)	Not Available	Not Available	Not Available	Use asbestos limit
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Talc	Silicates (less than 1% crystalline silica): Talc (not containing asbestos)	20 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Talc	Talc (containing no asbestos and less than 1% quartz) - respirable	2 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Limestone	Limestone- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Limestone	Calcium Carbonate- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Limestone	Calcium Carbonate- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Limestone	Marble- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Limestone	Marble- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Limestone	Limestone- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Limestone	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Limestone	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Limestone	Marble - total	10 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Limestone	Limestone - total	10 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Limestone	Calcium carbonate - respirable	5 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Limestone	Marble - respirable	5 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Limestone	Calcium carbonate - total	10 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Limestone	Limestone - respirable	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Quartz	Quartz - respirable	0.05 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Quartz	Silica: Crystalline: Quartz (Respirable)	10 (%SiO2+2) mg/m3 / 250 (%SiO2+5) mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Quartz	Silica, crystalline (as respirable dust)	0.05 mg/m3	Not Available	Not Available	Ca; See Appendix A
US OSHA Permissible Exposure Limits (PELs) Table Z-1	silica amorphous	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	silica amorphous	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	silica amorphous	Amorphous, including natural diatomaceous earth	80 (%SiO2) mg/m3 / 20 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	silica amorphous	Silica, amorphous	6 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	glass, oxide	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	glass, oxide	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	glass, oxide	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	glass, oxide	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	glass, oxide	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Limits (PELs) Table Z-1	iron	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	iron	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
						Continued

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Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-3	iron	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	iron	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	iron	Particulates not otherwise	Not Available	Not Available	Not Available	See Appendix D

#### Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
bisphenol A diglycidyl ether polymer	90 mg/m3	990 mg/m3	5,900 mg/m3
gamma- glycidoxypropyltrimethoxysilane	9.3 mg/m3	100 mg/m3	230 mg/m3
carbon black	9 mg/m3	99 mg/m3	590 mg/m3
Magnesite	45 mg/m3	260 mg/m3	1,600 mg/m3
Quartz	0.075 mg/m3	33 mg/m3	200 mg/m3
1,4-butanediol diglycidyl ether	16 mg/m3	170 mg/m3	220 mg/m3
silica amorphous	18 mg/m3	200 mg/m3	1,200 mg/m3
silica amorphous	18 mg/m3	100 mg/m3	630 mg/m3
silica amorphous	120 mg/m3	1,300 mg/m3	7,900 mg/m3
silica amorphous	45 mg/m3	500 mg/m3	3,000 mg/m3
silica amorphous	18 mg/m3	740 mg/m3	4,500 mg/m3
glass, oxide	15 mg/m3	170 mg/m3	990 mg/m3
iron	3.2 mg/m3	35 mg/m3	150 mg/m3

Ingredient	Original IDLH	Revised IDLH
bisphenol A diglycidyl ether polymer	Not Available	Not Available
bisphenol F diglycidyl ether copolymer	Not Available	Not Available
gamma- glycidoxypropyltrimethoxysilane	Not Available	Not Available
carbon black	1,750 mg/m3	Not Available
Chlorite	Not Available	Not Available
Dolomite	Not Available	Not Available
Magnesite	Not Available	Not Available
Talc	1,000 mg/m3	Not Available
Limestone	Not Available	Not Available
Quartz	25 mg/m3 / 50 mg/m3	Not Available
water	Not Available	Not Available
1,4-butanediol diglycidyl ether	Not Available	Not Available
silica amorphous	3,000 mg/m3	Not Available
glass, oxide	Not Available	Not Available
iron	Not Available	Not Available

#### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
bisphenol F diglycidyl ether copolymer	E	≤ 0.1 ppm		
1,4-butanediol diglycidyl ether	E	≤ 0.1 ppm		
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.			

#### **Exposure controls**

#### Appropriate engineering controls

Metal dusts must be collected at the source of generation as they are potentially explosive.

Avoid ignition sources.

Individual protection measures, such as personal protective equipment











Eye and face protection

Safety glasses with side shields.Chemical goggles.

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Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, e.g. PVC.     Wear safety footwear or safety gumboots, e.g. Rubber     NOTE:     The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
Body protection	See Other protection below
Other protection	PVC appop

#### Respiratory protection

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

### **SECTION 9 Physical and chemical properties**

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Appearance	Black Paste	Olz	
Physical state	Free-flowing Paste	Relative density (Water = 1)	1.5-2.0
Odor	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

#### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

#### **SECTION 11 Toxicological information**

Information or	n toxico	logical	effects
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Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.  Not normally a hazard due to non-volatile nature of product
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.

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This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin Contact Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Irritation and skin reactions are possible with sensitive skin Eye This material can cause eye irritation and damage in some persons. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Amorphous silicas generally are less hazardous than crystalline silicas, but the former can be converted to the latter on heating and subsequent Chronic cooling. Inhalation of dusts containing crystalline silicas may lead to silicosis, a disabling lung disease that may take years to develop. Soluble silicates do not exhibit sensitizing potential. Testing in bacterial and animal experiments have not shown any evidence of them causing mutations or birth defects. TOXICITY IRRITATION J-B Weld Professional Size Not Available Not Available TOXICITY IRRITATION bisphenol A diglycidyl ether dermal (rat) LD50: >1200 mg/kg[2] Not Available polymer Oral (Mouse) LD50; >500 mg/kg[2] TOXICITY IRRITATION bisphenol F diglycidyl ether dermal (rat) LD50: >400 mg/kg<sup>[2]</sup> Eye: no adverse effect observed (not irritating) $^{[1]}$ copolymer Oral (Rat) LD50: >5000 mg/kg[2] Skin: adverse effect observed (irritating) $^{[1]}$ TOXICITY IRRITATION Not Available Dermal (rabbit) LD50: 4247.9 mg/kg<sup>[2]</sup> glycidoxypropyltrimethoxysilane Inhalation(Rat) LC50: >5.3 mg/l4h $^{[1]}$ Oral (Rat) LD50: 7010 mg/kg<sup>[2]</sup> TOXICITY IRRITATION carbon black Dermal (rabbit) LD50: >2000 mg/kg<sup>[1]</sup> Eye: no adverse effect observed (not irritating)[1]Oral (Rat) LD50: >2000 mg/kg<sup>[1]</sup> Skin: no adverse effect observed (not irritating)<sup>[1]</sup> TOXICITY IRRITATION Chlorite Not Available Not Available TOXICITY IRRITATION Dolomite Not Available Not Available **TOXICITY** IRRITATION Magnesite Oral (Rat) LD50: >2000 mg/kg[1] Not Available TOXICITY IRRITATION dermal (rat) LD50: >2000 mg/kg[1] Eye: no adverse effect observed (not irritating)<sup>[1]</sup> Talc Inhalation(Rat) LC50: >2.1 mg/l4h<sup>[1]</sup> Skin: no adverse effect observed (not irritating) $^{[1]}$ Oral (Rat) LD50: >5000 mg/kg[1] IRRITATION TOXICITY Limestone Oral (Rat) LD50: 6450 mg/kg<sup>[2]</sup> Not Available TOXICITY IRRITATION Quartz Oral (Rat) LD50: 500 mg/kg<sup>[2]</sup> Not Available TOXICITY IRRITATION water Oral (Rat) LD50: >90000 mg/kg[2] Not Available

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	TOXICITY		IRRITATION	
1,4-butanediol diglycidyl ether	Dermal (rabbit) LD50: 1130 mg/kg <sup>[2]</sup>	Not Available		
	Oral (Rat) LD50: 1118 mg/kg <sup>[1]</sup>			
	TOXICITY	IRRITATION		
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): non-irritating ** [0	Grace]	
silica amorphous	Inhalation(Rat) LC50: >0.09<0.84 mg/l4h <sup>[1]</sup>	Eye: no adverse effect observ	ed (not irritating) <sup>[1]</sup>	
	Oral (Rat) LD50: >1000 mg/kg <sup>[1]</sup>	Skin (rabbit): non-irritating *		
		Skin: no adverse effect observ	ved (not irritating) <sup>[1]</sup>	
	Taxwami A A A			
glass, oxide	TOXICITY	IRRITATION  Net Associable		
	Not Available	Not Available		
	TOXICITY		IRRITATION	
iron	Oral (Rat) LD50: 98600 mg/kg <sup>[2]</sup>		Not Available	
Legend:	Nalue obtained from Europe ECHA Registered Substaspecified data extracted from RTECS - Register of Toxic	•	manufacturer's SDS. Unless otherwise	
	· · · · · · · · · · · · · · · · · · ·			
J-B Weld Professional Size	The following information refers to contact allergens as a Contact allergies quickly manifest themselves as contact	• • • • • • • • • • • • • • • • • • • •		
CARBON BLACK	Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported  WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.			
SILICA AMORPHOUS	Reports indicate high/prolonged exposures to amorphous effects were reversible. [PATTYS] The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited.	-1 V	al animals; in some experiments these	
GLASS, OXIDE	A similar spherical glass powder was nontoxic to rats at & There are no known reports of subchronic toxicity of nontested for primary irritation potential, a similar material carecommended exposure limits may result in irritation to the	fibrous glass. There are no known reports of aused minimal irritation to eyes and was non-	carcinogenicity of nonfibrous glass When	
	For silica amorphous:			

CARBON BLACK & WATER & GLASS, OXIDE

J-B Weld Professional Size & SILICA AMORPHOUS

In humans, synthetic amorphous silica (SAS) is essentially non-toxic by mouth, skin or eyes, and by inhalation. Epidemiology studies show little evidence of adverse health effects due to SAS.

No significant acute toxicological data identified in literature search.

Derived No Adverse Effects Level (NOAEL) in the range of 1000 mg/kg/d.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	<b>✓</b>	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	<b>✓</b>	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

🗶 – Data either not available or does not fill the criteria for classification

Data available to make classification

#### **SECTION 12 Ecological information**

#### Toxicity

.y						
J-B Weld Professional Size	Endpoint	Test Duration (hr)	Species	Value	Source	
	Not Available	Not Available	Not Available	Not Available	Not Available	
	Endpoint	Test Duration (hr)	Species	Value	Source	
bisphenol A diglycidyl ether	EC50	48h Crusta		~2mg/l	2	
polymer	EC50(ECx)	24h	Crustacea	3mg/l	Not Available	
	LC50	96h	Fish	2.4mg/l	Not Available	
bisphenol F diglycidyl ether copolymer	Endpoint	Test Duration (hr)	Species	Value	Source	
	Not Available	Not Available	Not Available	Not Available	Not Available	

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#### J-B Weld Professional Size

	Endpoint		est Duration (hr)		Species				Value		Source
	EC50		2h		Algae or other aquatic plants				>420mg		2
gamma-	EC50	4	8h		Crustacea				473mg/l		2
ycidoxypropyltrimethoxysilane	EC50	9	6h		Algae or other aquatic plants				250mg/l		2
	NOEC(ECx)	9	6h		Fish				1.5mg/l		2
	LC50	9	6h		Fish				4.9mg/l		2
							-				
	Endpoint	Tes	t Duration (hr)	Sp	oecies			Value			Source
	EC50	72h		Ale	gae or other aqua	tic plants		>0.2mg	/I		2
carbon black	EC50	48h		Cr	rustacea			33.076-	41.968mg/	I	4
	LC50	96h		Fis	sh			>100mg	g/l		2
	NOEC(ECx)	24h		Cr	rustacea			3200mg	g/l		1
	Enducint		Took Duration (hr)		Cuasias		Value			Cauras	
Chlorite	Endpoint		Test Duration (hr)		Species Not Avail	abla		oilabla		Source	abla
	Not Available		Not Available		Not Avail	able	Not Av	allable		Not Avail	able
			1								
Dolomite	Endpoint		Test Duration (hr)		Species		Value			Source	
	Not Available		Not Available		Not Avail	able	Not Av	ailable		Not Avail	able
	Endpoint	To	est Duration (hr)		Species				Value		Source
	LC50	9	6h		Fish				2120mg/	l	2
Magnesite	EC50	7:	2h		Algae or other	aquatic plants			>18.5mg	/I	2
	NOEC(ECx)	7:	2h		Algae or other	aquatic plants			18.5mg/l		2
						-11					
	Endpoint Test Duration (hr) Species Value							Source			
	EC50					'202.7mg/l		2			
Talc	LC50	96			Fish	adio pianto			81.016mg/	1	2
	NOEC(ECx)	72			Algae or other aqu	latic plants			.089mg/l		2
	110E0(E0X)		on .		rugae er eurer aqu	adio pianto		010	g/i		
			I				1			_	
Limestone	Endpoint		Test Duration (hr)				Value			Source	
	Not Available		Not Available		Not Avail	able	Not Av	ailable		Not Avail	able
Quartz	Endpoint		Test Duration (hr)		Species Value		Value	S		Source	
quartz	Not Available		Not Available Not Available		Not Available Not Available		able				
	Endpoint		Test Duration (hr)		Species		Value			Source	
water	Not Available		Not Available		Not Avail	able	Not Av	ailable		Not Avail	able
	Endpoint		Test Duration (hr)			Species		Valu	10	Sou	rce
1,4-butanediol diglycidyl ether	EC0(ECx)		24h			Crustacea	32mg/l			2	
1,4 Sutumoulor digiyolayi omor	LC50		96h				24mg/l			2	
	2030		3011			Fish		2-111	19/1		
		_									
	Endpoint		Duration (hr)		pecies				Value		Source
	EC50	72h	AH						1mg/l		2
silica amorphous	EC50	48h			rustacea				Smg/l		2
·	EC50	96h		_	lgae or other aqua	atic plants			7.576mg/l		2
	LC50	96h			ish				33.016mg/l		2
	EC0(ECx)	24h		С	rustacea			>=1	10000mg/l		1
	Endpoint	Te	est Duration (hr)		Species				Value		Source
						gae or other aquatic plants			>1000mg/l		0
	EC50	72	2h		Algae or other a	quatic plants		:	>1000mg/l		2
glass, oxide	EC50 LC50		2h 5h		Algae or other a	quatic plants			>1000mg/l >1000mg/l		2

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iron

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	18mg/l	2
EC50	48h	Crustacea	>100mg/l	2
LC50	96h	Fish	0.00499-0.00819mg/l	4
NOEC(ECx)	48h	Algae or other aquatic plants	0.1-4mg/l	4

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
gamma- glycidoxypropyltrimethoxysilane	нівн	HIGH
Magnesite	LOW	LOW
water	LOW	LOW
1,4-butanediol diglycidyl ether	HIGH	HIGH
silica amorphous	LOW	LOW

#### Bioaccumulative potential

Ingredient	Bioaccumulation
gamma- glycidoxypropyltrimethoxysilane	LOW (LogKOW = -0.9152)
Magnesite	LOW (LogKOW = -0.4605)
1,4-butanediol diglycidyl ether	LOW (LogKOW = -0.1458)
silica amorphous	LOW (LogKOW = 0.5294)

#### Mobility in soil

Ingredient	Mobility
gamma- glycidoxypropyltrimethoxysilane	LOW (KOC = 90.22)
Magnesite	HIGH (KOC = 1)
1,4-butanediol diglycidyl ether	LOW (KOC = 10)
silica amorphous	LOW (KOC = 23.74)

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal

- ▶ Containers may still present a chemical hazard/ danger when empty.
- ► Return to supplier for reuse/ recycling if possible.
- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.

#### **SECTION 14 Transport information**

Note:

For inner packagings not over 5L as manufactured and supplied by J-B Weld, the following exceptions apply: DOT - 49CFR §173.155 (b); IMDG - §2.10.2.7; IATA - Special Provision A197
For non-exempt packagings, the proper shipping name is UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY

For non-exempt packagings, the proper snipping name is UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN), 9, PGIII

Shipping container and transport vehicle placarding and labeling may vary from the below information. Products that are regulated for transport will be packaged and marked as Dangerous Goods in Limited Quantities according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
bisphenol A diglycidyl ether polymer	Not Available

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Product name	Group
bisphenol F diglycidyl ether copolymer	Not Available
gamma- glycidoxypropyltrimethoxysilane	Not Available
carbon black	Not Available
Chlorite	Not Available
Dolomite	Not Available
Magnesite	Not Available
Talc	Not Available
Limestone	Not Available
Quartz	Not Available
water	Not Available
1,4-butanediol diglycidyl ether	Not Available
silica amorphous	Not Available
glass, oxide	Not Available

#### Transport in bulk in accordance with the IGC Code

Not Available

Product name	Ship Type
bisphenol A diglycidyl ether polymer	Not Available
bisphenol F diglycidyl ether copolymer	Not Available
gamma- glycidoxypropyltrimethoxysilane	Not Available
carbon black	Not Available
Chlorite	Not Available
Dolomite	Not Available
Magnesite	Not Available
Talc	Not Available
Limestone	Not Available
Quartz	Not Available
water	Not Available
1,4-butanediol diglycidyl ether	Not Available
silica amorphous	Not Available
glass, oxide	Not Available
iron	Not Available

#### **SECTION 15 Regulatory information**

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

#### $\label{lem:bisphenol} \textbf{A diglycidyl ether polymer is found on the following regulatory lists}$

Chemical Footprint Project - Chemicals of High Concern List International WHO List of Proposed Occupational Exposure Limit (OEL) Values for

Manufactured Nanomaterials (MNMS)

 ${\it US-Alaska~Air~Quality~Control-Concentrations~Triggering~an~Air~Quality~Episode~for~Air~Pollutants~Other~Than~PM-2.5 } \\$ 

US DOE Temporary Emergency Exposure Limits (TEELs)

#### bisphenol F diglycidyl ether copolymer is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### gamma-glycidoxypropyltrimethoxysilane is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

carbon black is found on the following regulatory lists

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

- 11 V

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

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Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

#### Chlorite is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US NIOSH Recommended Exposure Limits (RELs)

#### Dolomite is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### Magnesite is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Recommended Exposure Limits (RELs)

#### Talc is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

#### Limestone is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - Massachusetts - Right To Know Listed Chemicals

US NIOSH Recommended Exposure Limits (RELs)

#### Quartz is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

#### water is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### 1,4-butanediol diglycidyl ether is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List US DOE Temporary Emergency Exposure Limits (TEELs)

#### silica amorphous is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - California - Biomonitoring - Priority Chemicals

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US - Massachusetts - Right To Know Listed Chemicals

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US National Toxicology Program (NTP) 15th Report Part A Known to be Human Carcinogens

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Carcinogens Listing

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Carcinogens Listing

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

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#### glass, oxide is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - California Proposition 65 - Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity

US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens

US - Massachusetts - Right To Know Listed Chemicals

US Clean Air Act - Hazardous Air Pollutants

US CWA (Clean Water Act) - Priority Pollutants

US CWA (Clean Water Act) - Toxic Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US National Toxicology Program (NTP) 15th Report Part B. Reasonably Anticipated to be a Human Carcinogen

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### iron is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3 US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### **Federal Regulations**

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Section 311/312 hazard categories

Section 311/312 mazaru categories	
Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	No
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	Yes

#### US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

None Reported

#### **State Regulations**

#### US. California Proposition 65



MARNING: This product can expose you to chemicals including carbon black, Quartz, silica amorphous, which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov

#### **National Inventory Status**

reactional involvery otacao		
National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	No (Chlorite)	
Canada - DSL	No (Chlorite; Dolomite; Limestone)	
Canada - NDSL	No (bisphenol A diglycidyl ether polymer; bisphenol F diglycidyl ether copolymer; gamma-glycidoxypropyltrimethoxysilane; carbon black; Chlorite; Magnesite; Talc; Quartz; water; 1,4-butanediol diglycidyl ether; glass, oxide; iron)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	No (bisphenol F diglycidyl ether copolymer; Chlorite; Dolomite; Limestone; glass, oxide; iron)	
Korea - KECI	Yes	

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National Inventory	Status	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	No (Chlorite)	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (bisphenol A diglycidyl ether polymer; gamma-glycidoxypropyltrimethoxysilane; Chlorite; 1,4-butanediol diglycidyl ether)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (Chlorite)	
Legend:	Yes = All CAS declared ingredients are on the inventory  No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

#### **SECTION 16 Other information**

Revision Date	08/22/2023
Initial Date	09/03/2020

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
1.3	08/21/2023	Hazards identification - Classification, Composition / information on ingredients - Ingredients

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

Powered by AuthorlTe, from Chemwatch.



# J-B Weld Professional Size J-B Weld Company LLC

Version No: 3.4

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **08/21/2023** Print Date: **08/22/2023** S.GHS.USA.EN

#### **SECTION 1 Identification**

Product Identifier	Proc	luct	Ident	tifier
--------------------	------	------	-------	--------

Product identifier		
Product name	J-B Weld Professional Size	
Synonyms	8281 (J-B Weld Professional Size) Part B	
Other means of identification	Not Available	

#### Recommended use of the chemical and restrictions on use

Relevant identified uses	Use according to manufacturer's directions.
	to manufacturer of an obtainer

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	J-B Weld Company LLC	
Address	400 CMH Road TX 75482 United States	
Telephone	903-885-7696	
Fax	Not Available	
Website	WWW.JBWeld.com	
Email	info@JBWeld.com	

#### **Emergency phone number**

• • • •	
Association / Organisation	InfoTrac
Emergency telephone numbers	I ransportation Emergencies: 800-535-5053 or (24 hours)
Other emergency telephone numbers	Poison Control Centers: Medical Emergencies 800-222-1222 (24 hours)

#### SECTION 2 Hazard(s) identification

#### Classification of the substance or mixture



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 3

#### Label elements

Hazard pictogram(s)







Signal word

Danger

#### Hazard statement(s)

H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	

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#### J-B Weld Professional Size

H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

#### Hazard(s) not otherwise classified

Not Applicable

#### Precautionary statement(s) Prevention

P260	Do not breathe mist/vapours/spray.	
P261	Avoid breathing mist/vapours/spray.	
P264	Wash all exposed external body areas thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P272	Contaminated work clothing must not be allowed out of the workplace.	

#### Precautionary statement(s) 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.	
P310	Immediately call a POISON CENTER/doctor/physician/first aider.	
P314	Get medical advice/attention if you feel unwell.	
P333+P313	f skin irritation or rash occurs: Get medical advice/attention.	
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P330	Rinse mouth.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

#### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
100-51-6*	0.88	benzyl alcohol
135108-88-2*	9.1	formaldehyde/ benzenamine, hydrogenated
112-57-2*	0.88	<u>tetraethylenepentamine</u>
68953-36-6*	6.65	tall oil/ tetraethylenepentamine polyamides
68410-23-1	12.37	C18 fatty acid dimers/ polyethylenepolyamine polyamides
112-24-3*	0.38	triethylenetetramine
1318-59-8*	0.04	Chlorite
16389-88-1*	0.04	<u>Dolomite</u>
546-93-0*	0.04	<u>Magnesite</u>
14807-96-6*	1.96	Talc
71074-89-0*	0.26	bis[(dimethylamino)methyl]phenol
90-72-2*	1.48	2.4.6-tris[(dimethylamino)methyl]phenol
77-99-6	0.0063	trimethylolpropane
13463-67-7	1.4	titanium dioxide (brookite)
65997-17-3	2	glass, oxide
67762-90-7	0.3	silica amorphous
7727-43-7	25.5	barium sulfate
37244-96-5	35.71	nepheline

#### **SECTION 4 First-aid measures**

#### Description of first aid measures

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	<ul> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	If poisoning occurs, contact a doctor or Poisons Information Centre.  If swallowed do NOT induce vomiting.  If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.  Observe the patient carefully.  Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious  Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.  Seek medical advice.

#### Most important symptoms and effects, both acute and delayed

See Section 11

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 Fire-fighting measures**

#### **Extinguishing media**

- ► Foam.
- Dry chemical powder.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

#### Special protective equipment and precautions for fire-fighters

Fire Fighting	<ul> <li>Alert Fire Department and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> </ul>
Fire/Explosion Hazard	<ul> <li>When silica dust is dispersed in air, firefighters should wear inhalation protection as hazardous substances from the fire may be adsorbed on the silica particles.</li> <li>When heated to extreme temperatures, (&gt;1700 deg.C) amorphous silica can fuse.</li> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>nitrogen oxides (NOx)</li> <li>sulfur oxides (SOx)</li> <li>silicon dioxide (SiO2)</li> <li>metal oxides</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit corrosive fumes.</li> </ul>

#### **SECTION 6 Accidental release measures**

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

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	Remove all ignition sources. Clean up all spills immediately.
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 Handling and storage**

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#### Precautions for safe handling

#### Safe handling

- ▶ Avoid all personal contact, including inhalation.
- ▶ Wear protective clothing when risk of exposure occurs.
- DO NOT allow clothing wet with material to stay in contact with skin

#### Other information

- Store in original containers.
- Keep containers securely sealed.

#### Conditions for safe storage, including any incompatibilities

#### Suitable container

- Metal can or drum
- Packaging as recommended by manufacturer.
- ▶ Check all containers are clearly labelled and free from leaks.

#### Barium sulfate (barytes)

- reacts violently with dimethyl sulfoxide, sodium acetylide, finely divided carbon, aluminium, magnesium, zirconium, and possibly other active metals, especially at elevated temperatures
- is incompatible with potassium, phosphorus (ignites when primed with nitrate-calcium silicide)
  - Quaternary ammonium cations are unreactive toward even strong electrophiles, oxidants, and acids. They also are stable toward most nucleophiles.
- Avoid strong acids, bases.
  - Imidazole may be regarded as possessing pyrrole and pyridine like properties and therefore its reactivity might resemble that of the others. In general imidazole, in common with pyrazole, is less reactive than pyrrole and more reactive than benzene.

The substance may be or contains a 'metalloid'

#### Storage incompatibility

The following elements are considered to be metalloids; boron, silicon, germanium, arsenic, antimony, tellurium and (possibly) polonium The electronegativities and ionisation energies of the metalloids are between those of the metals and nonmetals, so the metalloids exhibit characteristics of both classes. The reactivity of the metalloids depends on the element with which they are reacting. Silicas:

- react with hydrofluoric acid to produce silicon tetrafluoride gas
- ▶ react with xenon hexafluoride to produce explosive xenon trioxide
- reacts exothermically with oxygen difluoride, and explosively with chlorine trifluoride (these halogenated materials are not commonplace industrial materials) and other fluorine-containing compounds
- ▶ may react with fluorine, chlorates
- re incompatible with strong oxidisers, manganese trioxide, chlorine trioxide, strong alkalis, metal oxides, concentrated orthophosphoric acid, vinyl acetate
- may react vigorously when heated with alkali carbonates.
- Avoid reaction with oxidising agents

#### **SECTION 8 Exposure controls / personal protection**

#### **Control parameters**

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Chlorite	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Chlorite	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction		Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Chlorite	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Chlorite	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Chlorite	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Magnesite	Magnesite- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Magnesite	Magnesite- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Magnesite	Magnesite - respirable	5 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Magnesite	Magnesite - total	10 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Talc	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Talc	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Talc	Silicates (less than 1% crystalline silica): Talc (containing asbestos)	Not Available	Not Available	Not Available	Use asbestos limit
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Talc	Silicates (less than 1% crystalline silica): Talc (not containing asbestos)	20 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Talc	Silicates (less than 1% crystalline silica): Soapstone	20 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Talc	Talc (containing no asbestos and less than 1% quartz) - respirable	2 mg/m3	Not Available	Not Available	Not Available

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Source	Ingredient	Material name		TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	titanium dioxide (brookite) Titanium dioxide - Tota		tal dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	titanium dioxide (brookite) Inert or Nuisance Dust: Total Dust		st: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	titanium dioxide (brookite)	oxide Inert or Nuisance Dust: Respirable fraction		5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	titanium dioxide (brookite)	Titanium dioxide		Not Available	Not Available	Not Available	Ca; See Appendix A
US OSHA Permissible Exposure Limits (PELs) Table Z-1	glass, oxide	Particulates Not Othe (PNOR)- Respirable	•	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	glass, oxide	Particulates Not Othe (PNOR)- Total dust	erwise Regulated	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	glass, oxide	Inert or Nuisance Dus	st: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	glass, oxide	Inert or Nuisance Dus	st: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	glass, oxide	Particulates not other	wise regulated	Not Available	Not Available	Not Available	See Appendi D
US OSHA Permissible Exposure Limits (PELs) Table Z-1	silica amorphous	Particulates Not Othe (PNOR)- Respirable	•	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	silica amorphous	Particulates Not Othe (PNOR)- Total dust	erwise Regulated	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	silica amorphous	Amorphous, including earth	g natural diatomaceous	80 (%SiO2) mg/m3 / 20 mppcf	Not Available	Not Available	Not Available
JS NIOSH Recommended Exposure Limits (RELs)	silica amorphous	Silica, amorphous		6 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	barium sulfate	Barium sulfate- Total	dust	15 mg/m3	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure Limits (PELs) Table Z-1	barium sulfate	Barium sulfate- Resp	irable fraction	5 mg/m3	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure Limits (PELs) Table Z-3	barium sulfate	Inert or Nuisance Dus	st: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure	barium sulfate Inert or Nuisance Dus		st: Respirable fraction	5 mg/m3 / 15 mppcf	Not	Not	Not Available
LIIIIIIS (PELS) TADIE Z-3				o mg/mo / To mppo.	Available	Available	
US NIOSH Recommended	barium sulfate	Barium sulfate - respi	·	5 mg/m3	Available  Not  Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs) US NIOSH Recommended	barium sulfate	Barium sulfate - respi	·		Not	Not	Not Available
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)		<u>.                                      </u>	·	5 mg/m3	Not Available	Not Available	
US NIOSH Recommended Exposure Limits (RELs) US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits		<u>.                                      </u>	·	5 mg/m3	Not Available	Not Available	
US NIOSH Recommended Exposure Limits (RELs) US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits	barium sulfate	<u>.                                      </u>	irable	5 mg/m3	Not Available Not Available	Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits  Ingredient Denzyl alcohol	barium sulfate	<u>.                                      </u>	TEEL-2	5 mg/m3	Not Available Not Available	Not Available	
Limits (PELs) Table Z-3  US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits  Ingredient benzyl alcohol tetraethylenepentamine  C18 fatty acid dimers/ polyethylenepolyamine polyamides	barium sulfate  TEEL-1  30 ppm	<u>.                                      </u>	TEEL-2 52 ppm	5 mg/m3	Not Available Not Available TEEL-3 740 ppm	Not Available Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits Ingredient Denzyl alcohol Itetraethylenepentamine C18 fatty acid dimers/ polyethylenepolyamine polyamides	barium sulfate  TEEL-1  30 ppm  15 mg/m3	<u>.                                      </u>	TEEL-2 52 ppm 130 mg/m3	5 mg/m3	Not Available Not Available TEEL-3 740 ppm 790 mg/m3	Not Available Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits Ingredient Denzyl alcohol Interacthylenepentamine  C18 fatty acid dimers/ Dolyethylenepolyamine Dolyamides Interthylenetetramine	TEEL-1 30 ppm 15 mg/m3 30 mg/m3 3 ppm	<u>.                                      </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3	5 mg/m3	Not Available Not Available  TEEL-3 740 ppm 790 mg/m3 2,000 mg/m3	Not Available Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits Ingredient Denzyl alcohol Interacthylenepentamine C18 fatty acid dimers/ Dolyethylenepolyamine Dolyamides Irriethylenetetramine  Magnesite 2,4,6-	TEEL-1 30 ppm 15 mg/m3 30 mg/m3	<u>.                                      </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3	5 mg/m3	Not Available  Not Available  TEEL-3  740 ppm  790 mg/m3  2,000 mg/m3	Not Available Not Available	
JS NIOSH Recommended Exposure Limits (RELs)  JS NIOSH Recommended Exposure Limits (RELs)  Emergency Limits Ingredient Denzyl alcohol etraethylenepentamine  C18 fatty acid dimers/ boolyethylenepolyamine boolyamides rriethylenetetramine  Magnesite 2,4,6- rris[(dimethylamino)methyl]phenol	TEEL-1 30 ppm 15 mg/m3 30 mg/m3 3 ppm 45 mg/m3 6.5 mg/m3	<u>.                                      </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3 14 ppm 260 mg/m3 72 mg/m3	5 mg/m3	Not Available  Not Available  TEEL-3  740 ppm  790 mg/m3  2,000 mg/m3  83 ppm  1,600 mg/m3  430 mg/m3	Not Available Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits  Ingredient Denzyl alcohol tetraethylenepentamine  C18 fatty acid dimers/ polyethylenepolyamine polyamides triethylenetetramine  Magnesite 2,4,6- tris[(dimethylamino)methyl]phenol titanium dioxide (brookite)	TEEL-1 30 ppm 15 mg/m3 30 mg/m3 3 ppm 45 mg/m3 6.5 mg/m3 30 mg/m3	<u>.                                      </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3 14 ppm 260 mg/m3 72 mg/m3 330 mg/m3	5 mg/m3	Not Available  Not Available  TEEL-3  740 ppm  790 mg/m3  2,000 mg/m3  430 mg/m3  2,000 mg/m3	Not Available Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits  Ingredient  Denzyl alcohol  Letraethylenepentamine  C18 fatty acid dimers/ Dolyamides  Irriethylenetetramine  Magnesite  2,4,6- Iris[(dimethylamino)methyl]phenol  ittanium dioxide (brookite)  glass, oxide	TEEL-1 30 ppm 15 mg/m3 30 mg/m3 3 ppm 45 mg/m3 6.5 mg/m3 30 mg/m3 15 mg/m3	<u>.                                      </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3 14 ppm 260 mg/m3 72 mg/m3 330 mg/m3 170 mg/m3	5 mg/m3	Not Available  Not Available  TEEL-3  740 ppm  790 mg/m3  2,000 mg/m3  430 mg/m3  2,000 mg/m3  990 mg/m3	Not Available Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits (Ingredient Denzyl alcohol (In	TEEL-1 30 ppm 15 mg/m3 30 mg/m3 3 ppm 45 mg/m3 6.5 mg/m3 30 mg/m3 15 mg/m3	<u>.                                      </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3 14 ppm 260 mg/m3 72 mg/m3 330 mg/m3 170 mg/m3 200 mg/m3	5 mg/m3	Not Available  Not Available  TEEL-3  740 ppm  790 mg/m3  2,000 mg/m3  430 mg/m3  2,000 mg/m3  990 mg/m3  1,200 mg/m3	Not Available Not Available	
JS NIOSH Recommended Exposure Limits (RELs)  JS NIOSH Recommended Exposure Limits (RELs)  JS NIOSH Recommended Exposure Limits (RELs)  Emergency Limits  Ingredient  Denzyl alcohol  Letraethylenepentamine  C18 fatty acid dimers/ Dolyethylenepolyamine Dolyamides  Triethylenetetramine  Magnesite  2,4,6- Tris[(dimethylamino)methyl]phenol  ittanium dioxide (brookite)  glass, oxide  silica amorphous	TEEL-1 30 ppm 15 mg/m3 30 mg/m3 3 ppm 45 mg/m3 6.5 mg/m3 15 mg/m3 18 mg/m3 18 mg/m3	<u> </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3 14 ppm 260 mg/m3 72 mg/m3 330 mg/m3 170 mg/m3 200 mg/m3	5 mg/m3	Not Available Not Available TEEL-3 740 ppm 790 mg/m3 2,000 mg/m3 430 mg/m3 2,000 mg/m3 1,200 mg/m3 1,200 mg/m3 630 mg/m3	Not Available Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits  Ingredient  Denzyl alcohol  Itetraethylenepentamine  C18 fatty acid dimers/  poolyethylenepolyamine poolyamides  Irriethylenetetramine  Magnesite  2,4,6- Irris[(dimethylamino)methyl]phenol  Ititanium dioxide (brookite)  glass, oxide  silica amorphous  silica amorphous	TEEL-1 30 ppm 15 mg/m3 30 mg/m3 3 ppm 45 mg/m3 6.5 mg/m3 15 mg/m3 18 mg/m3 18 mg/m3 120 mg/m3	<u> </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3 14 ppm 260 mg/m3 72 mg/m3 170 mg/m3 200 mg/m3 100 mg/m3 1,300 mg/m3	5 mg/m3	Not Available  Not Available  TEEL-3  740 ppm  790 mg/m3  2,000 mg/m3  430 mg/m3  2,000 mg/m3  1,200 mg/m3  1,200 mg/m3  7,900 mg/m3	Not Available Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits  Ingredient  Denzyl alcohol  Itetraethylenepentamine  C18 fatty acid dimers/ polyethylenepolyamine polyamides  Irriethylenetetramine  Magnesite  2,4,6- Irris[(dimethylamino)methyl]phenol  Ititanium dioxide (brookite)  glass, oxide  silica amorphous  silica amorphous	TEEL-1 30 ppm 15 mg/m3 30 mg/m3 3 ppm 45 mg/m3 6.5 mg/m3 15 mg/m3 18 mg/m3 18 mg/m3 120 mg/m3 45 mg/m3	<u> </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3 14 ppm 260 mg/m3 72 mg/m3 330 mg/m3 170 mg/m3 200 mg/m3 100 mg/m3 1,300 mg/m3 500 mg/m3	5 mg/m3	Not Available  Not Available  TEEL-3  740 ppm  790 mg/m3  2,000 mg/m3  430 mg/m3  2,000 mg/m3  1,200 mg/m3  1,200 mg/m3  7,900 mg/m3  3,000 mg/m3	Not Available Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits  Ingredient  benzyl alcohol  tetraethylenepentamine  C18 fatty acid dimers/ polyathylenepolyamine polyamides  triethylenetetramine  Magnesite  2,4,6- tris[(dimethylamino)methyl]phenol  titanium dioxide (brookite)  glass, oxide  silica amorphous  silica amorphous  silica amorphous	TEEL-1 30 ppm 15 mg/m3 30 mg/m3 3 ppm 45 mg/m3 6.5 mg/m3 15 mg/m3 15 mg/m3 18 mg/m3 120 mg/m3 18 mg/m3 18 mg/m3	<u> </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3 14 ppm 260 mg/m3 72 mg/m3 330 mg/m3 170 mg/m3 200 mg/m3 1,300 mg/m3 1,300 mg/m3 500 mg/m3 740 mg/m3	5 mg/m3	Not Available  Not Available  Not Available  TEEL-3  740 ppm  790 mg/m3  2,000 mg/m3  430 mg/m3  2,000 mg/m3  1,200 mg/m3  1,200 mg/m3  7,900 mg/m3  7,900 mg/m3  4,500 mg/m3	Not Available Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits  Ingredient  benzyl alcohol  tetraethylenepentamine  C18 fatty acid dimers/ polyathylenepolyamine polyamides  triethylenetetramine  Magnesite  2,4,6- tris[(dimethylamino)methyl]phenol  titanium dioxide (brookite)  glass, oxide  silica amorphous  silica amorphous  silica amorphous	TEEL-1 30 ppm 15 mg/m3 30 mg/m3 3 ppm 45 mg/m3 6.5 mg/m3 15 mg/m3 18 mg/m3 18 mg/m3 120 mg/m3 45 mg/m3	<u> </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3 14 ppm 260 mg/m3 72 mg/m3 330 mg/m3 170 mg/m3 200 mg/m3 100 mg/m3 1,300 mg/m3 500 mg/m3	5 mg/m3	Not Available  Not Available  TEEL-3  740 ppm  790 mg/m3  2,000 mg/m3  430 mg/m3  2,000 mg/m3  1,200 mg/m3  1,200 mg/m3  7,900 mg/m3  3,000 mg/m3	Not Available Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits  Ingredient  benzyl alcohol  tetraethylenepentamine  C18 fatty acid dimers/ polyethylenepolyamine polyamides  triethylenetetramine  Magnesite  2,4,6- tris[(dimethylamino)methyl]phenol  titanium dioxide (brookite)  glass, oxide  silica amorphous	TEEL-1 30 ppm 15 mg/m3 30 mg/m3 3 ppm 45 mg/m3 6.5 mg/m3 15 mg/m3 15 mg/m3 18 mg/m3 120 mg/m3 18 mg/m3 18 mg/m3	<u> </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3 14 ppm 260 mg/m3 72 mg/m3 330 mg/m3 170 mg/m3 200 mg/m3 1,300 mg/m3 1,300 mg/m3 500 mg/m3 740 mg/m3	5 mg/m3	Not Available  Not Available  Not Available  TEEL-3  740 ppm  790 mg/m3  2,000 mg/m3  430 mg/m3  2,000 mg/m3  1,200 mg/m3  1,200 mg/m3  7,900 mg/m3  7,900 mg/m3  4,500 mg/m3	Not Available Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits (RELs)  Exposure Limits (Rels)	TEEL-1 30 ppm 15 mg/m3 30 mg/m3 3 ppm 45 mg/m3 6.5 mg/m3 15 mg/m3 18 mg/m3 120 mg/m3 15 mg/m3 18 mg/m3 15 mg/m3 15 mg/m3	<u> </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3 14 ppm 260 mg/m3 72 mg/m3 330 mg/m3 170 mg/m3 200 mg/m3 1,300 mg/m3 1,300 mg/m3 500 mg/m3 740 mg/m3	5 mg/m3  10 mg/m3	Not Available  Not Available  Not Available  TEEL-3  740 ppm  790 mg/m3  2,000 mg/m3  430 mg/m3  2,000 mg/m3  1,200 mg/m3  1,200 mg/m3  7,900 mg/m3  7,900 mg/m3  4,500 mg/m3	Not Available Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits  Ingredient  benzyl alcohol  tetraethylenepentamine  C18 fatty acid dimers/ polyethylenepolyamine polyamides  triethylenetetramine  Magnesite  2,4,6- tris[(dimethylamino)methyl]phenol titanium dioxide (brookite)  glass, oxide  silica amorphous  silica amorphous  silica amorphous  silica amorphous  silica amorphous  barium sulfate  Ingredient  benzyl alcohol  formaldehyde/ benzenamine,	TEEL-1 30 ppm 15 mg/m3 30 mg/m3 3 ppm 45 mg/m3 6.5 mg/m3 15 mg/m3 15 mg/m3 18 mg/m3 120 mg/m3 18 mg/m3 170 mg/m3 18 mg/m3 190 mg/m3	<u> </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3 14 ppm 260 mg/m3 72 mg/m3 330 mg/m3 170 mg/m3 200 mg/m3 1,300 mg/m3 1,300 mg/m3 500 mg/m3 740 mg/m3	5 mg/m3 10 mg/m3 Revised IDLH	Not Available  Not Available  Not Available  TEEL-3  740 ppm  790 mg/m3  2,000 mg/m3  430 mg/m3  2,000 mg/m3  1,200 mg/m3  1,200 mg/m3  7,900 mg/m3  7,900 mg/m3  4,500 mg/m3	Not Available Not Available	
US NIOSH Recommended Exposure Limits (RELs)  US NIOSH Recommended Exposure Limits (RELs)  Emergency Limits  Ingredient  benzyl alcohol tetraethylenepentamine  C18 fatty acid dimers/ polyethylenepolyamine	barium sulfate  TEEL-1 30 ppm 15 mg/m3 30 mg/m3 3 ppm 45 mg/m3 6.5 mg/m3 15 mg/m3 18 mg/m3 120 mg/m3 120 mg/m3 15 mg/m3 Original IDLH Not Available	<u> </u>	TEEL-2 52 ppm 130 mg/m3 330 mg/m3 14 ppm 260 mg/m3 72 mg/m3 330 mg/m3 170 mg/m3 200 mg/m3 1,300 mg/m3 1,300 mg/m3 500 mg/m3 740 mg/m3	5 mg/m3  10 mg/m3  Revised IDLH  Not Available	Not Available  Not Available  Not Available  TEEL-3  740 ppm  790 mg/m3  2,000 mg/m3  430 mg/m3  2,000 mg/m3  1,200 mg/m3  1,200 mg/m3  7,900 mg/m3  7,900 mg/m3  4,500 mg/m3	Not Available Not Available	

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**Original IDLH** Revised IDLH Ingredient C18 fatty acid dimers/ Not Available Not Available polyethylenepolyamine polyamides Not Available Not Available triethylenetetramine Chlorite Not Available Not Available Dolomite Not Available Not Available Magnesite Not Available Not Available Talc 1,000 mg/m3 Not Available bis[(dimethylamino)methyl]phenol Not Available Not Available Not Available Not Available tris[(dimethylamino)methyl]phenol trimethylolpropane Not Available Not Available titanium dioxide (brookite) 5,000 mg/m3 Not Available Not Available Not Available glass, oxide Not Available silica amorphous 3,000 mg/m3

#### **Occupational Exposure Banding**

barium sulfate

nepheline

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
benzyl alcohol	E	≤ 0.1 ppm	
formaldehyde/ benzenamine, hydrogenated	E	≤ 0.1 ppm	
tetraethylenepentamine	E	≤ 0.1 ppm	
tall oil/ tetraethylenepentamine polyamides	E	≤ 0.1 ppm	
C18 fatty acid dimers/ polyethylenepolyamine polyamides	Е	≤ 0.1 ppm	
triethylenetetramine	E	≤ 0.1 ppm	
trimethylolpropane	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into	specific categories or hands based on a chemical's notency and the	

Exposure controls

## Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a

Not Available

Not Available

## Individual protection measures, such as personal protective equipment



Not Available

Not Available





range of exposure concentrations that are expected to protect worker health.



#### Eye and face protection

- ► Safety glasses with side shields.
- Chemical goggles.

#### Skin protection

See Hand protection below

#### NO.

Wear chemical protective gloves, e.g. PVC.
 Wear safety footwear or safety gumboots, e.g. Rubber

#### NOTE:

#### Hands/feet protection

The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Body protection

See Other protection below

## ► Employees (smocks, co

- Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent]
- Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges.

#### Other protection

- Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels.
- Overalls
- ► P.V.C apron

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#### Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

#### **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

information on basic physical a	and chemical properties		
Appearance	Off white paste		
Physical state	Liquid	Relative density (Water = 1)	1.5-2.0
Odor	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

#### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

#### **SECTION 11 Toxicological information**

Information on toxicological ef	fects
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.  Inhalation of epoxy resin amine hardeners (including polyamines and amine adducts) may produce bronchospasm and coughing episodes lasting several days after cessation of the exposure. Even faint traces of these vapours may trigger an intense reaction in individuals showing 'amine asthma'.  Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual.  Effects on lungs are significantly enhanced in the presence of respirable particles.
Ingestion	Concentrated solutions of many cationics may cause corrosive damage to mucous membranes and the oesophagus. Nausea and vomiting (sometimes bloody) may follow ingestion.  Ingestion of amine epoxy-curing agents (hardeners) may cause severe abdominal pain, nausea, vomiting or diarrhoea. The vomitus may contain blood and mucous.  Ingestion of soluble barium compounds may result in ulceration of the mucous membranes of the gastrointestinal tract, tightness in the muscles of the face and neck, gastroenteritis, vomiting, diarrhoea, muscular tremors and paralysis, anxiety, weakness, laboured breathing, cardiac irregularity due to contractions of smooth striated and cardiac muscles (often violent and painful), slow irregular pulse, hypertension, convulsions and respiratory failure.  The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.

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This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition

Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Cationic surfactants cause skin irritation, and, in high concentrations, caustic burns. **Skin Contact** Amine epoxy-curing agents (hardeners) may produce primary skin irritation and sensitisation dermatitis in predisposed individuals. Cutaneous reactions include erythema, intolerable itching and severe facial swelling. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. If applied to the eyes, this material causes severe eye damage. Eye Many cationic surfactants are very irritating to the eyes at low concentration. Concentrated solutions can cause severe burns with permanent Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. There is sufficient evidence to suggest that this material directly causes cancer in humans Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Imidazole is structurally related, and has been used to counteract the effects of histamine. Imidazoles have been reported to disrupt male fertility, through disruption of the function of the testes Chronic Amorphous silicas generally are less hazardous than crystalline silicas, but the former can be converted to the latter on heating and subsequent cooling. Inhalation of dusts containing crystalline silicas may lead to silicosis, a disabling lung disease that may take years to develop Soluble silicates do not exhibit sensitizing potential. Testing in bacterial and animal experiments have not shown any evidence of them causing mutations or birth defects. Prolonged or repeated skin contact may cause degreasing, followed by drying, cracking and skin inflammation. Amine epoxy-curing agents (hardeners) may produce primary skin irritation and sensitisation dermatitis in predisposed individuals. Cutaneous reactions include erythema, intolerable itching and severe facial swelling. TOXICITY IRRITATION J-B Weld Professional Size Not Available Not Available TOXICITY IRRITATION Dermal (rabbit) LD50: 2000 mg/kg<sup>[2]</sup> Eye (rabbit): 0.75 mg open SEVERE Inhalation (Rat)LC50: >4178 mg/m3/4h<sup>[2]</sup> Eye: adverse effect observed (irritating)<sup>[1]</sup> benzyl alcohol Inhalation (Rat)LC50: 1000 ppm/8h<sup>[2]</sup> Skin (man): 16 mg/48h-mild Inhalation (Rat)LCLo: 2000 ppm/4h<sup>[2]</sup> Skin (rabbit):10 mg/24h open-mild Oral (Rat) LD50: 1230 mg/kg<sup>[2]</sup> Skin: no adverse effect observed (not irritating)<sup>[1]</sup> TOXICITY IRRITATION formaldehyde/ benzenamine Dermal (rabbit) LD50: >1000 mg/kg<sup>[1]</sup> Skin: adverse effect observed (corrosive)<sup>[1]</sup> hydrogenated Oral (Rat) LD50: >50<300 mg/kg<sup>[1]</sup> TOXICITY IRRITATION Dermal (rabbit) LD50: 660 mg/kg<sup>[2]</sup> Eye (rabbit): 100 mg/24h moderate tetraethylenepentamine Oral (Rat) LD50: 3990 mg/kg<sup>[2]</sup> Eye (rabbit): 5 mg moderate Skin (rabbit): 495 mg SEVERE Skin (rabbit): 5 mg/24h SEVERE TOXICITY IRRITATION tall oil/ tetraethylenepentamine Oral (Rat) LD50: >5000 mg/kg[2] Eyes (rabbit) (-) moderate polyamides Skin (rabbit) (-) moderate TOXICITY IRRITATION C18 fatty acid dimers/ dermal (rat) LD50: >2000 mg/kg[1] Not Available polyethylenepolyamine polyamides Oral (Rabbit) LD50; 800 mg/kg<sup>[2]</sup> TOXICITY IRRITATION Not Available Dermal (rabbit) LD50: 805 mg/kg<sup>[2]</sup> triethylenetetramine Oral (Rat) LD50: 1591.4 mg/kg<sup>[1]</sup> TOXICITY IRRITATION Chlorite

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Not Available Not Available TOXICITY IRRITATION Dolomite Not Available Not Available TOXICITY IRRITATION Magnesite Oral (Rat) LD50: >2000 mg/kg[1] Not Available TOXICITY IRRITATION dermal (rat) LD50: >2000 mg/kg<sup>[1]</sup> Eye: no adverse effect observed (not irritating)  $\[ \]^{[1]}$ Talc Inhalation(Rat) LC50: >2.1 mg/l4h[1] Skin: no adverse effect observed (not irritating)[1] Oral (Rat) LD50: >5000 mg/kg[1] TOXICITY IRRITATION bis[(dimethylamino)methyl]phenol Not Available Not Available TOXICITY IRRITATION 2.4.6dermal (rat) LD50: >973 mg/kg<sup>[1]</sup> Eye: adverse effect observed (irreversible damage)<sup>[1]</sup> tris[(dimethylamino)methyl]phenol Oral (Rat) LD50: 1200 mg/kg<sup>[2]</sup> Skin: adverse effect observed (corrosive)<sup>[1]</sup> TOXICITY IRRITATION dermal (rat) LD50: >500 mg/kg[2] Not Available trimethylolpropane Inhalation(Rat) LC50: >0.29 mg/l4h[2] Oral (Mouse) LD50; 14000 mg/kg<sup>[2]</sup> TOXICITY **IRRITATION** dermal (hamster) LD50: >=10000 mg/kg<sup>[2]</sup> Eye: no adverse effect observed (not irritating)<sup>[1]</sup> titanium dioxide (brookite) Inhalation(Rat) LC50: >2.28 mg/l4h<sup>[1]</sup> Skin: no adverse effect observed (not irritating)<sup>[1]</sup> Oral (Rat) LD50: >=2000 mg/kg[1] TOXICITY IRRITATION glass, oxide Not Available Not Available TOXICITY IRRITATION dermal (rat) LD50: >2000 mg/kg[1] Eye (rabbit): non-irritating \*\* [Grace] silica amorphous Inhalation(Rat) LC50: >0.09<0.84 mg/l4h<sup>[1]</sup> Eye: no adverse effect observed (not irritating)<sup>[1]</sup> Oral (Rat) LD50: >1000 mg/kg[1] Skin (rabbit): non-irritating \* Skin: no adverse effect observed (not irritating)<sup>[1]</sup> TOXICITY IRRITATION barium sulfate dermal (rat) LD50: >2000 mg/kg[1] Not Available Oral (Mouse) LD50; >3000 mg/kg[2] TOXICITY IRRITATION nepheline Not Available Not Available 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise Legend: specified data extracted from RTECS - Register of Toxic Effect of chemical Substances J-B Weld Professional Size

WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.

benzyl alcohol

limited similarity in their pattern of activity.

For benzoates:

Unlike benzylic alcohols, the beta-hydroxyl group of the members of benzyl alkyl alcohols contributes to break down reactions but do not undergo phase II metabolic activation. Though structurally similar to cancer causing ethyl benzene, phenethyl alcohol is only of negligible concern due to

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Benzyl alcohol, benzoic acid and its sodium and potassium salt have a common metabolic and excretion pathway. All but benzyl alcohol are considered to be unharmful and of low acute toxicity Adverse reactions to fragrances in perfumes and fragranced cosmetic products include allergic contact dermatitis, irritant contact dermatitis, sensitivity to light, immediate contact reactions, and pigmented contact dermatitis. Airborne and connubial contact dermatitis occurs. Fragrance allergens act as haptens, low molecular weight chemicals that cause an immune response only when attached to a carrier protein. However, not all sensitizing fragrance chemicals are directly reactive, but require previous activation. This is a member or analogue of a group of benzyl derivatives generally regarded as safe (GRAS), based partly on their self-limiting properties as flavouring substances in food. In humans and other animals, they are rapidly absorbed, broken down and excreted, with a wide safety margin, The aryl alkyl alcohol (AAA) fragrance ingredients have diverse chemical structures, with similar metabolic and toxicity profiles. The AAA fragrances demonstrate low acute and subchronic toxicity by skin contact and swallowing. formaldehyde/ benzenamine, Amine adducts have much reduced volatility and are less irritating to the skin and eyes than amine hardeners. However commercial amine hydrogenated adducts may contain a percentage of unreacted amine and all unnecessary contact should be avoided. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration. tetraethylenepentamine Triethylenetetramine is a severe irritant to skin and eyes and may induce skin sensitisation. Acute exposure to saturated vapour via inhalation was tolerated without impairment but exposure to aerosol may lead to reversible irritations of the mucous membranes in the airways. Overexposure to most of these materials may cause adverse health effects. Many amine-based compounds can cause release of histamines, which, in turn, can trigger allergic and other physiological effects, including constriction of the bronchi or asthma and inflammation of the cavity of the nose. Whole-body symptoms include headache, nausea, faintness tall oil/ anxiety, a decrease in blood pressure, rapid heartbeat, itching, reddening of the skin, urticaria (hives) and swelling of the face, which are usually tetraethylenepentamine transient. polyamides There are generally four routes of possible or potential exposure: inhalation, skin contact, eye contact, and swallowing. Inhalation: Inhaling vapours may result in moderate to severe irritation of the tissues of the nose and throat and can irritate the lungs. Most undiluted cationic surfactants satisfy the criteria for classification as Harmful (Xn) with R22 and as Irritant (Xi) for skin and eves with R38 Considered to be a skin sensitiser in the Local Lymph Node Assay (LLNA) conducted according to OECD Test Guideline 429. The substance does not cause effects that meet the criteria for classification for systemic or target organ toxicity after repeated sub-acute exposures. Based on C18 FATTY ACID DIMERS/ read-across to these findings, Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines does not meet the criteria for **POLYETHYLENEPOLYAMINE** classification for repeated dose toxicity according to Regulation 1272/2008/EC or Directive 67/548/EEC. Genetic toxicity Negative results were **POLYAMIDES** obtained in an in vitro study conducted using bacterial cells. Negative results were obtained for the read across substance in vitro studies in mammalian cells. \*REACh Dossier TITANIUM DIOXIDE For titanium dioxide (BROOKITE) A similar spherical glass powder was nontoxic to rats at 5,000 mg/kg. All animals survived, gained weight and appeared active and healthy. There are no known reports of subchronic toxicity of nonfibrous glass. There are no known reports of carcinogenicity of nonfibrous glass When GLASS, OXIDE tested for primary irritation potential, a similar material caused minimal irritation to eyes and was non-irritating to skin. Dust in excess of recommended exposure limits may result in irritation to the respiratory tract Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible. [PATTYS] SILICA AMORPHOUS The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. **NEPHELINE** No data available No data available J-B Weld Professional Size & benzyl alcohol & tetraethylenepentamine & tall oil/ tetraethylenepentamine The following information refers to contact allergens as a group and may not be specific to this product. polyamides & C18 FATTY Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. ACID DIMERS/ **POLYETHYLENEPOLYAMINE POLYAMIDES** For imidazoline surfactants (amidoamine/imidazoline - AAIs) All substances within the AAI group show the same reactive groups, show similar composition of amide, imidazoline, and some dimer structures J-B Weld Professional Size & of both, with the length of original EA amines used for production as biggest difference. Inherent reactivity and toxicity is not expected to differ tall oil/ much between these substances. tetraethylenepentamine All in vivo skin irritation/corrosion studies performed on AAI substances all indicate them to be corrosive following 4 hour exposure. polyamides & C18 FATTY For quaternary ammonium compounds (QACs): ACID DIMERS/ Quaternary ammonium compounds are synthetically made surfactants. Studies show that its solubility, toxicity and irritation depend on chain **POLYETHYLENEPOLYAMINE** length and bond type while effect on histamine depends on concentration. **POLYAMIDES** The chemicals in the Fatty Nitrogen Derived (FND) Amides are generally similar in terms of physical and chemical properties, environmental fate and toxicity. Its low acute oral toxicity is well established across all subcategories by the available data and show no apparent organ specific toxicity, mutation, reproductive or developmental defects. J-B Weld Professional Size & Derived No Adverse Effects Level (NOAEL) in the range of 1000 mg/kg/d. SILICA AMORPHOUS In humans, synthetic amorphous silica (SAS) is essentially non-toxic by mouth, skin or eyes, and by inhalation. Epidemiology studies show little evidence of adverse health effects due to SAS. J-B Weld Professional Size & Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing TITANIUM DIOXIDE dysfunction of the lungs and immune system. (BROOKITE) benzyl alcohol & TITANIUM The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of DIOXIDE (BROOKITE) vesicles, scaling and thickening of the skin formaldehyde/ benzenamine, hydrogenated & tetraethylenepentamine & tall oil/ tetraethylenepentamine Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition polyamides & C18 FATTY known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. ACID DIMERS/ **POLYETHYLENEPOLYAMINE POLYAMIDES** 

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formaldehyde/ benzenamine, hydrogenated & TITANIUM DIOXIDE (BROOKITE) & GLASS, OXIDE & BARIUM SULFATE	No significant acute toxicological data identified in literature search.
tetraethylenepentamine & tall oil/ tetraethylenepentamine polyamides & C18 FATTY ACID DIMERS/ POLYETHYLENEPOLYAMINE POLYAMIDES	Ethyleneamines are very reactive and can cause chemical burns, skin rashes and asthma-like symptoms. It is readily absorbed through the skin and may cause eye blindness and irreparable damage.
tetraethylenepentamine & tall oil/ tetraethylenepentamine polyamides & C18 FATTY ACID DIMERS/ POLYETHYLENEPOLYAMINE POLYAMIDES & TITANIUM DIOXIDE (BROOKITE)	The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
tetraethylenepentamine & tall oil/ tetraethylenepentamine polyamides	For alkyl polyamines: The alkyl polyamines cluster consists of two terminal primary and at least one secondary amine groups and are derivatives of low molecular weight ethylenediamine, propylenediamine or hexanediamine. Toxicity depends on route of exposure.  Tetraethylenepentamine (TEPA) has a low acute toxicity when taken orally and a higher toxicity via the dermal route most likely due to the corrosive nature of TEPA to the skin against neutralization by stomach acid. TEPA may be corrosive to the skin and eyes.
tall oil/ tetraethylenepentamine polyamides & C18 FATTY ACID DIMERS/ POLYETHYLENEPOLYAMINE POLYAMIDES	Laboratory testing shows that the fatty acid amide, cocoamide DEA, causes occupational allergic contact dermatitis, and that allergy to this substance is becoming more common.  Alkanolamides are manufactured by condensation of diethanolamine and the methyl ester of long chain fatty acids.

Acute Toxicity	✓	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	•	STOT - Repeated Exposure	<b>~</b>
Mutagenicity	X	Aspiration Hazard	×

Legend:

- X − Data either not available or does not fill the criteria for classification
   ✓ − Data available to make classification

## **SECTION 12 Ecological information**

#### Toxicity

J-B Weld Professional Size	Endpoint	Test Duration (hr)		Species	Value	Sc	ource
J-B Weid Professional Size	Not Available	Not Available		Not Available	Not Available	No	ot Available
	Endpoint	Test Duration (hr)	Spec	ies		Value	Source
	EC50	96h	Algae	e or other aquatic pla	nts	76.828mg/l	2
	EC50	72h	Algae	e or other aquatic pla	nts	500mg/l	2
benzyl alcohol	EC50	48h	Crus	tacea		230mg/l	2
	LC50	96h	Fish			10mg/l	4
	NOEC(ECx)	336h	Fish			5.1mg/l	2
	-						
	Endpoint	Test Duration (hr)	Spec	ies		Value	Source
	EC50	72h	Algae	e or other aquatic pla	nts	43.94mg/l	2
formaldehyde/ benzenamine, hydrogenated	EC50	48h	Crust	tacea		15.4mg/l	2
ny ar ogonatou	LC50	96h	Fish			63mg/l	2
	EC10(ECx)	72h	Algae	e or other aquatic pla	nts	1.2mg/l	2
	Endpoint	Test Duration (hr)	Spe	ecies		Value	Source
4.444	EC50	72h	Alg	ae or other aquatic p	ants	2.1mg/l	1
tetraethylenepentamine	EC50	48h	Cru	stacea		24.1mg/l	1
	NOEC(ECx)	72h	Alg	ae or other aquatic p	ants	0.5mg/l	1
Il oil/ tetraethylenepentamine	Endpoint	Test Duration (hr)		Species	Value	Sc	ource
polyamides	Not Available	Not Available		Not Available	Not Available	NI.	ot Available

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	Endpoint	Test Duration (hr)	Specie			Value	Sourc	
C18 fatty acid dimers/	EC50	72h		or other aquatic plants		4.11mg/l		/ailable
polyethylenepolyamine polyamides	EC50	48h	Crusta	cea		5.19mg/l		/ailable
poryamidos	LC50	96h	Fish			7.07mg/l		/ailable
	EC50(ECx)	72h	Algae	or other aquatic plants		4.11mg/l	Not Av	/ailable
	Endpoint	Test Duration (hr)	Sp	ecies		Value		Source
	BCF	1008h	Fis	h		<0.5		7
	EC50	72h	Alg	ae or other aquatic pla	ints	2.5mg	ı/l	1
triethylenetetramine	EC50	48h	Cru	ıstacea		31.1m	ıg/l	1
trictityiciictettaiiiiic	EC50	96h	Alg	ae or other aquatic pla	ints	3.7mg	ı/l	4
	ErC50	72h	Alg	ae or other aquatic pla	ints	2.5mg	ı/l	1
	LC50	96h	Fis	h ————————————————————————————————————		180mg	g/l	1
	EC10(ECx)	72h	Alg	ae or other aquatic pla	ints	0.67m	ıg/l	1
Chlorite	Endpoint	Test Duration (h	r)	Species	Value		Source	
	Not Available	Not Available		Not Available	Not Availa	able	Not Avail	able
				1				
Dolomite	Endpoint	Test Duration (h	r)	Species	Value		Source	
	Not Available	Not Available		Not Available	Not Availa	able	Not Avail	able
	Endpoint	Test Duration (hr)	Sp	ecies		Value		Source
Magnesite	LC50	96h	Fis	h		2120m	g/l	2
magnesite	EC50	72h	Alg	ae or other aquatic pla	ints	>18.5m	ng/I	2
	NOEC(ECx)	72h	Alg	ae or other aquatic pla	ints	18.5mg	ı/l	2
	Endpoint	Test Duration (hr)	Speci	es		Value		Source
	EC50	96h	Algae	or other aquatic plants	3	7202.7mg/l		2
Talc								
	LC50	96h	Fish			89581.016m	g/l	2
	NOEC(ECx)	96h 720h		or other aquatic plants	3	89581.016mg	-	2
				or other aquatic plants	3		-	
is[/dimethylamino]methyl]nhenol			Algae	or other aquatic plants	Value		-	
nis[(dimethylamino)methyl]phenol	NOEC(ECx)	720h	Algae			918.089mg/l		2
is[(dimethylamino)methyl]phenol	NOEC(ECx)  Endpoint  Not Available	720h  Test Duration (h  Not Available	Algae	Species Not Available	Value	918.089mg/l	Source Not Avail	2 lable
is[(dimethylamino)methyl]phenol	NOEC(ECx)  Endpoint  Not Available  Endpoint	Test Duration (h Not Available  Test Duration (hr)	Algae	Species Not Available	Value Not Availa	918.089mg/l	Source Not Avail	2 lable
. , , , , , , , , , , , , , , , , , , ,	NOEC(ECx)  Endpoint Not Available  Endpoint EC50	Test Duration (h Not Available  Test Duration (hr) 72h	Algae Specie Algae	Species Not Available	Value Not Availa	918.089mg/l able  Value 2.8mg/l	Source Not Avail	2 lable
2,4,6-	NOEC(ECx)  Endpoint Not Available  Endpoint EC50 EC50	Test Duration (h Not Available  Test Duration (hr) 72h 48h	Algae  Specie Algae  Crusta	Species Not Available ss or other aquatic plants cea	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >100mg/l	Source Not Avail Source 2	2 able
2,4,6-	NOEC(ECx)  Endpoint Not Available  Endpoint EC50 EC50 EC50(ECx)	Test Duration (h Not Available  Test Duration (hr) 72h 48h 24h	Algae Algae Crusta Crusta	Species Not Available ss or other aquatic plants cea	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >100mg/l 280mg/l	Source Not Avail  Source 2 2 Not Av	2 lable
2,4,6-	NOEC(ECx)  Endpoint Not Available  Endpoint EC50 EC50	Test Duration (h Not Available  Test Duration (hr) 72h 48h	Algae  Specie Algae  Crusta	Species Not Available ss or other aquatic plants cea	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >100mg/l	Source Not Avail  Source 2 2 Not Av	2 able
2,4,6-	Endpoint Not Available  Endpoint EC50 EC50 EC50(ECx) LC50	Test Duration (h Not Available  Test Duration (hr) 72h 48h 24h 96h	Algae Algae Algae Crusta Crusta Fish	Species Not Available ss or other aquatic plants cea	Value Not Availa	918.089mg/l  able  Value  2.8mg/l >100mg/l  1000mg/l	Source Not Avail  Source 2 2 Not Av	2 lable
2,4,6-	Endpoint Not Available  Endpoint EC50 EC50 EC50(ECx) LC50  Endpoint	Test Duration (h Not Available  Test Duration (hr) 72h 48h 24h 96h  Test Duration (hr)	Species Algae Crusta Crusta Fish Species	Species Not Available ss or other aquatic plants cea	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >1000mg/l 1000mg/l	Source Not Avail  Source 2 2 Not Av	2 dable vailable vailable Source
2,4,6-	Endpoint Not Available  Endpoint EC50 EC50 EC50(ECx) LC50  Endpoint BCF	Test Duration (hr) Test Duration (hr) 72h 48h 24h 96h  Test Duration (hr) 1008h	Species Fish	Species Not Available  ss or other aquatic plants cea	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >1000mg/l 1000mg/l  alue .4-2.6	Source Not Avail  Source 2 2 Not Av	able vailable see Source 7
2,4,6-	Endpoint Not Available  Endpoint EC50 EC50 EC50(ECx) LC50  Endpoint BCF EC50	Test Duration (h Not Available  Test Duration (hr) 72h 48h 24h 96h  Test Duration (hr) 1008h 72h	Species Fish Algae or of	Species Not Available  ss or other aquatic plants cea cea	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >1000mg/l 1000mg/l  alue 4-2.6 1000mg/l	Source Not Avail  Source 2 2 Not Av Not Av	able vailable vailable 7 2
2,4,6- is[(dimethylamino)methyl]phenol	Endpoint Not Available  Endpoint EC50 EC50 EC50(ECx) LC50  Endpoint BCF EC50 EC50	Test Duration (hr) Test Duration (hr) 72h 48h 24h 96h  Test Duration (hr) 1008h 72h 48h	Species Fish Algae or of Crustaces	Species Not Available  ss or other aquatic plants cea cea	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >100mg/l 1000mg/l  alue 4-2.6 1000mg/l 0330-16360mg	Source Not Avail  Source 2 2 Not Av Not Av	able vailable vailable 7 2 4
2,4,6- is[(dimethylamino)methyl]phenol	Endpoint Not Available  Endpoint EC50 EC50 EC50(ECx) LC50  Endpoint BCF EC50	Test Duration (h Not Available  Test Duration (hr) 72h 48h 24h 96h  Test Duration (hr) 1008h 72h	Species Fish Algae or of	Species Not Available  ss or other aquatic plants cea cea	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >1000mg/l 1000mg/l  alue 4-2.6 1000mg/l	Source Not Avail  Source 2 2 Not Av Not Av	able vailable vailable 7 2
2,4,6- is[(dimethylamino)methyl]phenol	Endpoint Not Available  Endpoint EC50 EC50 EC50(ECx) LC50  Endpoint BCF EC50 EC50	Test Duration (hr) Test Duration (hr) 72h 48h 24h 96h  Test Duration (hr) 1008h 72h 48h	Species Fish Algae or of Crustaces	Species Not Available  ss or other aquatic plants cea cea other aquatic plants	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >100mg/l 1000mg/l  alue 4-2.6 1000mg/l 0330-16360mg	Source Not Avail  Source 2 2 Not Av Not Av	able vailable vailable 7 2 4
2,4,6- is[(dimethylamino)methyl]phenol	Endpoint Not Available  Endpoint EC50 EC50 EC50(ECx) LC50  Endpoint BCF EC50 EC50 EC50 EC50 EC50 EC50 EC50	Test Duration (hr) Test Duration (hr) 72h 48h 24h 96h  Test Duration (hr) 1008h 72h 48h 96h 48h	Species Algae or Crustaces Fish Crustaces	Species Not Available  ss or other aquatic plants cea cea other aquatic plants	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >100mg/l 280mg/l 1000mg/l 0330-16360mg/l 0330-16360mg/l =102mg/l	Source Not Avail  Source 2 2 Not Av Not Av	able vailable vailable  Source 7 2 4 2 1
2,4,6- is[(dimethylamino)methyl]phenol	Endpoint Not Available  Endpoint EC50 EC50 EC50(ECx) LC50  Endpoint BCF EC50 EC50 EC50 EC50 EC50 EC50 EC50 EC50	Test Duration (hr) Test Duration (hr) 72h 48h 24h 96h  Test Duration (hr) 1008h 72h 48h 96h 48h	Species Fish Algae or Crustace: Fish Crustace: Spec	Species Not Available  ss or other aquatic plants cea cea other aquatic plants	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >100mg/l 280mg/l 1000mg/l 0330-16360mg 100mg/l =102mg/l	Source Not Avail  Source 2 2 Not Av Not Av	able vailable vailable  7 2 4 2 1
2,4,6- is[(dimethylamino)methyl]phenol	Endpoint Not Available  Endpoint EC50 EC50 EC50(ECx) LC50  Endpoint BCF EC50 EC50 EC50 EC50 EC50 EC50 EC50 EC50	Test Duration (hr) Test Duration (hr) 72h 48h 24h 96h  Test Duration (hr) 1008h 72h 48h 96h 48h 96h 48h	Species Fish Crustace: Fish Species Fish Species Fish Algae or of Crustace: Fish Crustace: Fish	Species Not Available  ss or other aquatic plants cea cea other aquatic plants a	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >1000mg/l 280mg/l 1000mg/l 0330-16360mg 100mg/l =102mg/l  Value <1.1-9.6	Source Not Avail  Source 2 2 Not Avail Not Avail	able vailable  Source 7 2 4 2 1 Source 7
2,4,6- is[(dimethylamino)methyl]phenol  trimethylolpropane	Endpoint Not Available  Endpoint EC50 EC50 EC50(ECx) LC50  Endpoint BCF EC50 EC50 EC50 EC50 EC50 EC50 EC50 EC50	Test Duration (hr)  Test Duration (hr)  72h  48h  24h  96h  Test Duration (hr)  1008h  72h  48h  96h  48h  72h  1008h  72h	Species Fish Algae or Crustace: Fish Crustace: Fish Algae or Crustace: Fish Algae or Algae	Species Not Available  or other aquatic plants cea  cea  other aquatic plants a  ies  or other aquatic plants a	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >100mg/l 280mg/l 1000mg/l 1000mg/l 0330-16360mg 100mg/l =102mg/l  Value <1.1-9.6 3.75-7.58m	Source Not Avail  Source 2 2 Not Avail Not Avail	able vailable vailable 7 2 4 2 1 Source 7 4
2,4,6- is[(dimethylamino)methyl]phenol	Endpoint Not Available  Endpoint EC50 EC50 EC50(ECx) LC50  Endpoint BCF EC50 EC50 EC50 EC50 EC50 EC50 EC50 EC50	Test Duration (hr)  Test Duration (hr)  72h  48h  24h  96h  Test Duration (hr)  1008h  72h  48h  96h  48h  Test Duration (hr)  1008h  72h  48h	Species Algae or Crustace: Fish Crustace: Fish Crustace:	Species Not Available  ss or other aquatic plants cea cea chies or other aquatic plants a de cor other aquatic plants acea	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >100mg/l 280mg/l 1000mg/l 1000mg/l 0330-16360mg 100mg/l =102mg/l  Value <1.1-9.6 3.75-7.58m 1.9mg/l	Source Not Avail  Source 2 2 Not Av Not Av	able vailable vailable  Source 7 2 1 Source 7 4 2 2
ris[(dimethylamino)methyl]phenol trimethylolpropane	Endpoint Not Available  Endpoint EC50 EC50 EC50(ECx) LC50  Endpoint BCF EC50 EC50 EC50 EC50 EC50 EC50 EC50 EC50	Test Duration (hr)  Test Duration (hr)  72h  48h  24h  96h  Test Duration (hr)  1008h  72h  48h  96h  48h  72h  1008h  72h	Species Algae or Crustace: Fish Crustace: Fish Crustace:	Species Not Available  or other aquatic plants cea  cea  other aquatic plants a  ies  or other aquatic plants a	Value Not Availa	918.089mg/l  able  Value 2.8mg/l >100mg/l 280mg/l 1000mg/l 1000mg/l 0330-16360mg 100mg/l =102mg/l  Value <1.1-9.6 3.75-7.58m	Source Not Avail  Source 2 2 Not Av Not Av	able vailable vailable 7 2 4 2 1 Source 7 4

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	Endpoint	Test Duration (hr)	Species	Value	Source
alaaa ayida	EC50	72h	Algae or other aquatic plants	>1000mg/l	2
glass, oxide	LC50	96h	Fish	>1000mg/l	2
	NOEC(ECx)	72h	Crustacea	>=1000mg/l	2

	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	14.1mg/l	2
-:::	EC50	48h	Crustacea	>86mg/l	2
silica amorphous	EC50	96h	Algae or other aquatic plants	217.576mg/l	2
	LC50	96h	Fish	1033.016mg/l	2
	EC0(ECx)	24h	Crustacea	>=10000mg/l	1

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	>1.15mg/l	2
EC50	48h	Crustacea	32mg/L	2
NOEC(ECx)	72h	Algae or other aquatic plants	>=1.15mg/l	2
LC50	96h	Fish	>3.5mg/l	2

Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 8. Vendor Data

 $Harmful\ to\ aquatic\ organisms,\ may\ cause\ long-term\ adverse\ effects\ in\ the\ aquatic\ environment.$ 

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

**DO NOT** discharge into sewer or waterways.

barium sulfate

nepheline

Legend:

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
benzyl alcohol	LOW	LOW
tetraethylenepentamine	LOW	LOW
triethylenetetramine	LOW	LOW
Magnesite	LOW	LOW
2,4,6- tris[(dimethylamino)methyl]phenol	HIGH	HIGH
trimethylolpropane	LOW	LOW
titanium dioxide (brookite)	HIGH	HIGH
silica amorphous	LOW	LOW

#### Bioaccumulative potential

Ingredient	Bioaccumulation
benzyl alcohol	LOW (LogKOW = 1.1)
tetraethylenepentamine	LOW (LogKOW = -3.1604)
triethylenetetramine	LOW (BCF = 5)
Magnesite	LOW (LogKOW = -0.4605)
2,4,6- tris[(dimethylamino)methyl]phenol	LOW (LogKOW = 0.773)
trimethylolpropane	LOW (BCF = 16.2)
titanium dioxide (brookite)	LOW (BCF = 10)
silica amorphous	LOW (LogKOW = 0.5294)

#### Mobility in soil

Ingredient	Mobility
benzyl alcohol	LOW (KOC = 15.66)
tetraethylenepentamine	LOW (KOC = 1098)
triethylenetetramine	LOW (KOC = 309.9)
Magnesite	HIGH (KOC = 1)
2,4,6- tris[(dimethylamino)methyl]phenol	LOW (KOC = 15130)

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Ingredient	Mobility
trimethylolpropane	HIGH (KOC = 1)
titanium dioxide (brookite)	LOW (KOC = 23.74)
silica amorphous	LOW (KOC = 23.74)

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal

- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- ▶ It may be necessary to collect all wash water for treatment before disposal.
- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- ► Consult State Land Waste Authority for disposal.

#### **SECTION 14 Transport information**

Shipping container and transport vehicle placarding and labeling may vary from the below information. Products that are regulated for transport will be packaged and marked as Dangerous Goods in Limited Quantities according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
benzyl alcohol	Not Available
formaldehyde/ benzenamine, hydrogenated	Not Available
tetraethylenepentamine	Not Available
tall oil/ tetraethylenepentamine polyamides	Not Available
C18 fatty acid dimers/ polyethylenepolyamine polyamides	Not Available
triethylenetetramine	Not Available
Chlorite	Not Available
Dolomite	Not Available
Magnesite	Not Available
Talc	Not Available
bis[(dimethylamino)methyl]phenol	Not Available
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available
trimethylolpropane	Not Available
titanium dioxide (brookite)	Not Available
glass, oxide	Not Available
silica amorphous	Not Available
barium sulfate	Not Available
nepheline	Not Available

#### Transport in bulk in accordance with the IGC Code

Product name	Ship Type
benzyl alcohol	Not Available
formaldehyde/ benzenamine, hydrogenated	Not Available
tetraethylenepentamine	Not Available
tall oil/ tetraethylenepentamine polyamides	Not Available

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Product name	Ship Type
C18 fatty acid dimers/ polyethylenepolyamine polyamides	Not Available
triethylenetetramine	Not Available
Chlorite	Not Available
Dolomite	Not Available
Magnesite	Not Available
Talc	Not Available
bis[(dimethylamino)methyl]phenol	Not Available
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available
trimethylolpropane	Not Available
titanium dioxide (brookite)	Not Available
glass, oxide	Not Available
silica amorphous	Not Available
barium sulfate	Not Available
nepheline	Not Available

#### **SECTION 15 Regulatory information**

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

#### benzyl alcohol is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals US AIHA Workplace Environmental Exposure Levels (WEELs) US DOE Temporary Emergency Exposure Limits (TEELs) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental
Exposure Levels (WEEL)

#### formaldehyde/ benzenamine, hydrogenated is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### tetraethylenepentamine is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals US AIHA Workplace Environmental Exposure Levels (WEELs) US DOE Temporary Emergency Exposure Limits (TEELs) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental
Exposure Levels (WEEL)

#### tall oil/ tetraethylenepentamine polyamides is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### C18 fatty acid dimers/ polyethylenepolyamine polyamides is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### triethylenetetramine is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals US AIHA Workplace Environmental Exposure Levels (WEELs) US DOE Temporary Emergency Exposure Limits (TEELs) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental
Exposure Levels (WEEL)

#### Chlorite is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

 $\mbox{US}$  - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1 US OSHA Permissible Exposure Limits (PELs) Table Z-3

#### Dolomite is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### Magnesite is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals
US DOE Temporary Emergency Exposure Limits (TEELs)
US NIOSH Recommended Exposure Limits (RELs)

#### US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

### Talc is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - Massachusetts - Right To Know Listed Chemicals

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

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#### bis[(dimethylamino)methyl]phenol is found on the following regulatory lists

Not Applicable

#### 2,4,6-tris[(dimethylamino)methyl]phenol is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

trimethylolpropane is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### titanium dioxide (brookite) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

#### glass, oxide is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - California Proposition 65 - Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity

US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens

US - Massachusetts - Right To Know Listed Chemicals

US Clean Air Act - Hazardous Air Pollutants

US CWA (Clean Water Act) - Priority Pollutants

#### silica amorphous is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

 ${\bf US-Alaska~Air~Quality~Control-Concentrations~Triggering~an~Air~Quality~Episode~for~Air~Pollutants~Other~Than~PM-2.5 } \\$ 

US - California - Biomonitoring - Priority Chemicals

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

#### barium sulfate is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

#### nepheline is found on the following regulatory lists

Not Applicable

#### Federal Regulations

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

## Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US CWA (Clean Water Act) - Toxic Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US National Toxicology Program (NTP) 15th Report Part B. Reasonably Anticipated to be a Human Carcinogen

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Carcinogens Listing

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

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#### J-B Weld Professional Size

Print Date: 08/22/2023

In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	Yes
Reproductive toxicity	No
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

## US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

None Reported

#### State Regulations

#### US. California Proposition 65



MARNING: This product can expose you to chemicals including titanium dioxide (brookite), silica amorphous, which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

#### **National Inventory Status**

National Inventory	Status			
Australia - AIIC / Australia Non-Industrial Use	No (Chlorite; bis[(dimethylamino)methyl]phenol; nepheline)			
Canada - DSL	No (Chlorite; Dolomite; bis[(dimethylamino)methyl]phenol)			
Canada - NDSL	No (benzyl alcohol; formaldehyde/ benzenamine, hydrogenated; tetraethylenepentamine; tall oil/ tetraethylenepentamine polyamides; C18 fatty acid dimers/ polyethylenepolyamine polyamides; triethylenetetramine; Chlorite; Magnesite; Talc; bis[(dimethylamino)methyl]phenol; trimethylolpropane; titanium dioxide (brookite); glass, oxide; barium sulfate; nepheline)			
China - IECSC	Yes			
Europe - EINEC / ELINCS / NLP	No (formaldehyde/ benzenamine, hydrogenated; C18 fatty acid dimers/ polyethylenepolyamine polyamides; nepheline)			
Japan - ENCS	No (formaldehyde/ benzenamine, hydrogenated; tall oil/ tetraethylenepentamine polyamides; Chlorite; Dolomite; glass, oxide; nepheline)			
Korea - KECI	No (bis[(dimethylamino)methyl]phenol)			
New Zealand - NZIoC	Yes			
Philippines - PICCS	Yes			
USA - TSCA	No (Chlorite; bis[(dimethylamino)methyl]phenol; nepheline)			
Taiwan - TCSI	Yes			
Mexico - INSQ	No (formaldehyde/ benzenamine, hydrogenated; tall oil/ tetraethylenepentamine polyamides; Chlorite; bis[(dimethylamino)methyl]phenol)			
Vietnam - NCI	Yes			
Russia - FBEPH	No (formaldehyde/ benzenamine, hydrogenated; C18 fatty acid dimers/ polyethylenepolyamine polyamides; Chlorite; bis[(dimethylamino)methyl]phenol; nepheline)			
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.			

#### **SECTION 16 Other information**

Revision Date	08/21/2023
Initial Date	09/13/2020

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
3.4	08/20/2023	Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (skin), Toxicological information - Acute Health (swallowed), Toxicological information - Chronic Health, Hazards identification - Classification, Exposure controls / personal protection - Engineering Control, Ecological Information - Environmental, Exposure controls / personal protection - Exposure Standard, Firefighting measures - Fire Fighter (fire/explosion hazard), Firefighting measures - Fire Fighter (fire fighting), First Aid measures - First Aid (swallowed), Composition / information on ingredients - Ingredients, Exposure controls / personal protection - Personal Protection (other), Exposure controls / personal protection - Personal Protection (despirator), Accidental release measures - Spills (major), Handling and storage - Storage (storage incompatibility)

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

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