

# WoodWeld Part A J-B Weld Company LLC

Version No: 3.3
Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **03/23/2021** Print Date: **03/23/2021** S.GHS.USA.EN

#### **SECTION 1 Identification**

#### **Product Identifier**

Product name	WoodWeld Part A			
Synonyms	50151 (WoodWeld) Part A			
Other means of identification	Not Available			

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

Relevant identified uses

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

Registered company name	J-B Weld Company LLC			
Address	CMH Road Sulphur Springs 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

Classification

Eye Irritation Category 2A, Respiratory Sensitizer Category 1, Specific target organ toxicity - single exposure Category 2, Acute Toxicity (Inhalation) Category 4, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Skin Corrosion/Irritation Category 2, Skin Sensitizer Category 1

# Label elements

Hazard pictogram(s)





Signal word

Danger

#### Hazard statement(s)

H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H371	May cause damage to organs. (Respiratory system) (Inhalation)
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

# Hazard(s) not otherwise classified

Not Applicable

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#### Supplementary statement(s)

Not Applicable

#### Precautionary statement(s) Prevention

P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.

#### Precautionary statement(s) Response

P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.				
P309+P311	exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.				
P342+P311	experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.				
P362	Take off contaminated clothing and wash before reuse.				
P302+P352	ON SKIN: Wash with plenty of water and soap.				
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
P312	Call a POISON CENTER or doctor/physician if you feel unwell.				
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.				
P337+P313	If eye irritation persists: Get medical advice/attention.				

#### Precautionary statement(s) Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

#### 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	
14807-96-6*	10-25	Talc	
68611-44-9	1-5	silica amorphous	
1318-02-1	5-10	zeolites	
108-32-7	1-5	propylene carbonate	
101-68-8	40-60	4,4'-diphenylmethane diisocyanate (MDI)	
25686-28-6	5-10	MDI homopolymer	
9048-57-1	20-30	MDI, propoxylated	

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

# **SECTION 4 First-aid measures**

# Description of first aid measures

If this product comes in contact with the eyes:

# **Eye Contact**

Wash 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.

# 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.

### For thermal burns:

# Skin Contact Decontaminate area around burn.

► Consider the use of cold packs and topical antibiotics.

For first-degree burns (affecting top layer of skin)

- Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides.
- Hold burned skin under cool (not cold) running was
   Use compresses if running water is not available.
- Cover with sterile non-adhesive bandage or clean cloth.
- Do NOT apply butter or ointments; this may cause infection.

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▶ Give over-the counter pain relievers if pain increases or swelling, redness, fever occur.

For second-degree burns (affecting top two layers of skin)

- ► Cool the burn by immerse in cold running water for 10-15 minutes.
- Use compresses if running water is not available.
- ▶ Do NOT apply ice as this may lower body temperature and cause further damage.
- Do NOT break blisters or apply butter or ointments; this may cause infection.
- ▶ Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape. To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort):

Lay the person flat.

- ► Elevate feet about 12 inches.
- ► Elevate burn area above heart level, if possible.
- Cover the person with coat or blanket.
- Seek medical assistance.

For third-degree burns

Seek immediate medical or emergency assistance.

In the mean time:

- Protect burn area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave lint in wound.
- Separate burned toes and fingers with dry, sterile dressings.
- ▶ Do not soak burn in water or apply ointments or butter; this may cause infection.
- ► To prevent shock see above.
- For an airway burn, do not place pillow under the person's head when the person is lying down. This can close the airway.
- ▶ Have a person with a facial burn sit up.
- Check pulse and breathing to monitor for shock until emergency help arrives.

# Inhalation

- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- Transport to hospital, or doctor, without delay.

Following uptake by inhalation, move person to an area free from risk of further exposure. Oxygen or artificial respiration should be administered as needed. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic. A physician should be consulted.

# Ingestion

- ► IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.
- For advice, contact a Poisons Information Centre or a doctor.
- Urgent hospital treatment is likely to be needed.
- In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.
- If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.
- If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.

#### ingestion

Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:

• INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

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

See Section 11

Indication of any immediate medical attention and special treatment needed

# **SECTION 5 Fire-fighting measures**

#### **Extinguishing media**

- ▶ Small quantities of water in contact with hot liquid may react violently with generation of a large volume of rapidly expanding hot sticky semi-solid foam.
- Presents additional hazard when fire fighting in a confined space.
- 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

#### 

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nitrogen oxides (NOx)

silicon dioxide (SiO2)

other pyrolysis products typical of burning organic material.

May emit corrosive fumes

When heated at high temperatures many isocyanates decompose rapidly generating a vapour which pressurises containers, possibly to the point of rupture. Release of toxic and/or flammable isocyanate vapours may then occur

#### **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.

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

# **SECTION 7 Handling and storage**

#### 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

Consider storage under inert gas.
for commercial quantities of isocyanates:

·Isocyanates should be stored in adequately bunded areas. Nothing else should be kept within the same bunding.

- ► 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.

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. 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
- Storage incompatibility may react with fluorine, chlorates
  - are 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

·Avoid reaction with water, alcohols and detergent solutions. Isocyanates are electrophiles, and as such they are reactive toward a variety of nucleophiles including alcohols, amines, and even water.

- A range of exothermic decomposition energies for isocyanates is given as 20-30 kJ/mol.
- The relationship between energy of decomposition and processing hazards has been the subject of discussion; it is suggested that values of energy released per unit of mass, rather than on a molar basis (J/g) be used in the assessment.

# SECTION 8 Exposure controls / personal protection

#### **Control parameters**

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US NIOSH Recommended Exposure Limits (RELs)	Talc	Massive talc, Soapstone silicate, Steatite	6 (total), 3 (resp) mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Talc	Hydrous magnesium silicate, Steatite talc	2 (resp) mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	Talc	Silicates (less than 1% crystalline silica): Talc (containing asbestos); use asbestos limit	Not Available	Not Available	Not Available	see 29 CFR 1910.1001; See Table Z-3

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Source	Ingredient Material name		TWA	STEL	Peak	Notes	
	g.ou.o	Silicates (less than 1% crystalline silica):					
US OSHA Permissible Exposure Levels (PELs) - Table Z1	Talc	Talc (containing no asbestos), respirable dust		Not Available	Not Available	Not Available	See Table Z-3
US ACGIH Threshold Limit Values (TLV)	Talc	Talc: Containing no asbestos fibers (Respirable particulate matter)		2 mg/m3	Not Available	Not Available	Pulm fibrosis; pulm func
US ACGIH Threshold Limit Values (TLV)	Talc	Talc: Containin	g asbestos fibers	Not Available	Not Available	Not Available	Use Asbestos TLV® (K)
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Talc	Silicates (less t Talc (not contai	than 1% crystalline silica): ining asbestos)	20 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Talc	Silicates (less t Soapstone	than 1% crystalline silica):	20 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Talc	Silicates (less t	than 1% crystalline silica): g asbestos)	Not Available	Not Available	Not Available	Use asbestos limit
US NIOSH Recommended Exposure Limits (RELs)	silica amorphous	Diatomite, Pred	earth, Diatomaceous silica, cipitated amorphous silica, on dioxide (amorphous)	6 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	silica amorphous		ous, diatomaceous earth, than 1% crystalline silica	Not Available	Not Available	Not Available	See Table Z-3
US OSHA Permissible Exposure Levels (PELs) - Table Z1	silica amorphous	Silica, fused, re	espirable dust	Not Available	Not Available	Not Available	See Table Z-3
US OSHA Permissible Exposure Levels (PELs) - Table Z1	silica amorphous	Silica, amorpho	ous, precipitated and gel	Not Available	Not Available	Not Available	See Table Z-3
US OSHA Permissible Exposure Limits (PELs) Table Z-3	silica amorphous	Amorphous, incearth	cluding natural diatomaceou	80 (%SiO2) mg/m3 / 20 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	zeolites	Synonyms vary aluminum com	y depending upon the specil pound.	ic 2 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	zeolites	Synonyms vary depending upon the specific aluminum compound.		ic 5 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	4,4'-diphenylmethane diisocyanate (MDI)	4,4'-Diphenylmethane diisocyanate; MDI; Methylene bis(4-phenyl isocyanate); Methylene di-p-phenylene ester of isocyanic acid		0.005 ppm / ic 0.05 mg/m3	Not Available	0.020 ppm / 0.2 mg/m3	[10-minute]
US OSHA Permissible Exposure Levels (PELs) - Table Z1	4,4'-diphenylmethane diisocyanate (MDI)	Methylene bisphenyl isocyanate (MDI)		Not Available	Not Available	0.02 ppm / 0.2 mg/m3	Not Available
US ACGIH Threshold Limit Values (TLV)	4,4'-diphenylmethane diisocyanate (MDI)	thane Methylene hisphenyl isocyanate		0.005 ppm	Not Available	Not Available	Resp sens
Emergency Limits							
Ingredient	TEEL-1		TEEL-2		TEEL-3		
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			740 mg/m3				
·	18 mg/m3			4,500 mg/m3			
zeolites	30 mg/m3		330 mg/m3	2,000 mg/m3			
zeolites	30 mg/m3		330 mg/m3		2,000 mg/m3		
propylene carbonate  4,4'-diphenylmethane	34 mg/m3 0.45 mg/m3		370 mg/m3  Not Available	2,200 mg/m3  Not Available			
diisocyanate (MDI)  4,4'-diphenylmethane diisocyanate (MDI)	29 mg/m3		40 mg/m3	240 mg/m3			
, ,	Original IDL H		1	Poviced IDLLI			
Ingredient	Original IDLH			Revised IDLH			
Talc	, <u> </u>		Not Available				
silica amorphous	3,000 mg/m3		Not Available				
zeolites	Not Available N		Not Available				
propylene carbonate	Not Available N			Not Available			
4,4'-diphenylmethane diisocyanate (MDI)	75 mg/m3		Not Available	Not Available			
MDI homopolymer	Not Available N		Not Available				
MDI, propoxylated	Not Available	Not Available		Not Available			
Occupational Exposure Banding							
Ingredient	Occupational Exposure B	and Rating		Occupational Ex	posure Band I	Limit	
Notes:		Occupational exposure banding is a process of assigning chemicals into speci					otency 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.

Continued...

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Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit				
propylene carbonate	E	≤ 0.1 ppm			
MDI homopolymer	E	≤ 0.1 ppm			
MDI, propoxylated	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

- All processes in which isocyanates are used should be enclosed wherever possible.
- ▶ Total enclosure, accompanied by good general ventilation, should be used to keep atmospheric concentrations below the relevant exposure standards.

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.

#### Personal protection











### Eye and face protection

- Safety glasses with side shields.
- Chemical goggles.

#### Skin protection

See Hand protection below

#### 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.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to

#### Hands/feet protection

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.

- ► Do NOT wear natural rubber (latex gloves).
- Isocyanate resistant materials include Teflon, Viton, nitrile rubber and some PVA gloves.
- ▶ Protective gloves and overalls should be worn as specified in the appropriate national standard.
- DO NOT use skin cream unless necessary and then use only minimum amount.
- Isocyanate vapour may be absorbed into skin cream and this increases hazard.

# Body protection

See Other protection below

# Other protection

All employees working with isocyanates must be informed of the hazards from exposure to the contaminant and the precautions necessary to prevent damage to their health. They should be made aware of the need to carry out their work so that as little contamination as possible is produced, and of the importance of the proper use of all safeguards against exposure to themselves and their fellow workers.

- Overalls.
- P.V.C apron.

# **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

Appearance	Not Available				
Physical state	Liquid	Relative density (Agua= 1)	1.1-1.5		
Odour	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	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		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**

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Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Presence of elevated temperatures.</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 effec
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In	ha	ale	ed

The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. The vapour/mist may be highly irritating to the upper respiratory tract and lungs; the response may be severe enough to produce bronchitis and pulmonary oedema. Possible neurological symptoms arising from isocyanate exposure include headache, insomnia, euphoria, ataxia, anxiety neurosis, depression and paranoia.

Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.

#### Ingestion

Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.

# Skin Contact

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

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.

Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.

### Eye

This material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation may be expected with redness; conjunctivitis may occur with prolonged exposure.

Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. 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 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.

Chronic

Persons with a history of asthma or other respiratory problems or are known to be sensitised, should not be engaged in any work involving the handling of isocyanates

The chemistry of reaction of isocyanates, as evidenced by MDI, in biological milieu is such that in the event of a true exposure of small MDI doses to the mouth, reactions will commence at once with biological macromolecules in the buccal region and will continue along the digestive tract prior to reaching the stomach.

There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Isocyanate vapours are irritating to the airways and can cause their inflammation, with wheezing, gasping, severe distress, even loss of consciousness and fluid in the lungs. Nervous system symptoms that may occur include headache, sleep disturbance, euphoria, inco-ordination, anxiety, depression and paranoia.

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TOXICITY	IRRITATION
Not Available	Not Available

#### Talc

TOXICITY	IRRITATION
dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
Inhalation(Rat) LC50; >2.1 mg/l4 <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
Oral(Rat) LD50; >5000 mg/kg <sup>[1]</sup>	

#### silica amorphous

TOXICITY	IRRITATION
dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): non-irritating *
Inhalation(Rat) LC50; >0.139 mg/L4 <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
Oral(Rat) LD50; >1000 mg/kg <sup>[1]</sup>	Skin (rabbit): non-irritating *
	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>

# zeolites

TOXICITY	IRRITATION
Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available
Inhalation(Rat) LC50; >0.5 mg/l4 <sup>[2]</sup>	

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	Oral(Rat) LD50; >2000 mg/kg <sup>[1]</sup>				
	TOXICITY	IRRITATION			
	Dermal (rabbit) LD50: >=2000 mg/kg <sup>[1]</sup>	Eye (rabbit): 60 mg - moderate			
propylene carbonate	Oral(Rat) LD50; >5000 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>			
,		Skin (human): 100 mg/3d-I moderate			
		Skin (rabbit): 500 mg moderate			
		Skin: no adverse effect observed (not irritating)[1]			
	TOXICITY	IRRITATION			
	Dermal (rabbit) LD50: >6200 mg/kg <sup>[2]</sup>	Dermal Sensitiser *			
4,4'-diphenylmethane diisocyanate (MDI)	Inhalation(Rat) LC50; 0.368 mg/L4 <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>			
anooyanato (mbi)	Oral(Rat) LD50; >2000 mg/kg <sup>[1]</sup>	Skin (rabbit): 500 mg /24 hours			
		Skin: adverse effect observed (irritating) <sup>[1]</sup>			
	TOXICITY	IRRITATION			
MDI homopolymer	Dermal (rabbit) LD50: >9400 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>			
	Inhalation(Rat) LC50; 0.368 mg/L4 <sup>[1]</sup>	Skin: adverse effect observed (irritating) <sup>[1]</sup>			
	Oral(Rat) LD50; >2000 mg/kg <sup>[1]</sup>				
	TOXICITY	IRRITATION			
MDI, propoxylated	Not Available	Not Available			
	Not Available	INULAVAIIADIE			
Legend:	Value obtained from Europe ECHA Registered Suspecified data extracted from RTECS - Register of T	ubstances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise			
SILICA AMORPHOUS  ZEOLITES	Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible. [PATTYS]  Inhalation (-) LC50: >18.3 mg/l/1hr for sodium aluminosilicate, zeolite A: Skin (rabbit): non-irritating Eye (rabbit): slight [Grace]  The material may cause 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.				
PROPYLENE CARBONATE	for propylene carbonate:  Numerous adequate and reliable acute toxicity tests are available on propylene carbonate. Oral and dermal tests meet OECD and EPA test guidelines.				
4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI)	Inhalation (human) TCLo: 0.13 ppm/30 mins Eye (rabbit): 0.10 mg moderate  Aromatic and aliphatic diisocyanates may cause airway toxicity and skin sensitization. Monomers and prepolymers exhibit similar respiratory effect.				
MDI HOMOPOLYMER	as polymethylene polyphenyl isocyanate				
MDI, PROPOXYLATED	No significant acute toxicological data identified in literature search.  Polyethers (such as ethoxylated surfactants and polyethylene glycols) are highly susceptible to being oxidized in the air. They then form complex mixtures of oxidation products.  Animal testing reveals that whole the pure, non-oxidised surfactant is non-sensitizing, many of the oxidation products are sensitisers.				
WoodWeld Part A & 4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI) & MDI HOMOPOLYMER & MDI, PROPOXYLATED	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 known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Allergic reactions involving the respiratory tract are usually due to interactions between IgE antibodies and allergens and occur rapidly. Allergic potential of the allergen and period of exposure often determine the severity of symptoms.  Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure. The following information refers to contact allergens as a group and may not be specific to this product.  Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type.  Isocyanate vapours are irritating to the airways and can cause their inflammation, with wheezing, gasping, severe distress, even loss of consciousness and fluid in the lungs. Nervous system symptoms that may occur include headache, sleep disturbance, euphoria, inco-ordination, anxiety, depression and paranoia.				
WoodWeld Part A & SILICA AMORPHOUS	For silica amorphous: Derived No Adverse Effects Level (NOAEL) in the range of 1000 mg/kg/d. 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.				
SILICA AMORPHOUS & 4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI) & MDI HOMOPOLYMER	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or lin				
PROPYLENE CARBONATE & 4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI)	The material may produce moderate eye irritation lea conjunctivitis.	ading to inflammation. Repeated or prolonged exposure to irritants may produce			

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#### WoodWeld Part A

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

Legend:

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

# **SECTION 12 Ecological information**

Legend:

To		

	Endpoint		Test Duration (hr)		Species	Value		Source	•	
WoodWeld Part A	Not Available	-		Not Available		Not Availa	ble	Not Ava	Available	
	Endpoint	Те	st Duration (hr)	Specie	es		Value		Source	
	LC50	96		Fish			89581.016mg		2	
Talc	NOEC(ECx)	72	0	Algae	or other aquatic plants		918.089mg/l		2	
	EC50	96	i		or other aquatic plants				2	
	Endpoint	Test	Duration (hr)	Species	Species		Value		Source	
	EC0(ECx)	24	,	Crustac			>=10000mg	1	1	
	LC50	96		Fish			1033.016mg		2	
silica amorphous	EC50	48		Crustac	ea		>86mg/l		2	
	EC50	72			r other aquatic plants		14.1mg/l		2	
	EC50	96			r other aquatic plants		217.576mg/l		2	
	Endpoint	Те	st Duration (hr)	Spec	cies		Value	Value		
	ErC50	ErC50 72		Alga	Algae or other aquatic plants		18mg/l		1	
zeolites	EC50	48		Crustacea		>100mg	/I	2		
Zeomes	LC50	96		Fish		>1000m	g/l	1		
	EC10(ECx)	96		Alga	Algae or other aquatic plants		4.9mg/l		1	
	EC50	96		Alga	e or other aquatic plan	ts	18mg/l		1	
	Endpoint	Те	st Duration (hr)	Spec	cies		Value		Source	
	LC50	96		Fish	Fish		>1000m	g/l	2	
propylene carbonate	EC50	48		Crus	tacea		>1000m	g/l	1	
	EC50(ECx)	72		Alga	e or other aquatic plan	ts	>900mg	/I	1	
	EC50	72		Alga	Algae or other aquatic plants		>900mg	/I	1	
	Endpoint	т	est Duration (hr)	Sne	ecies		Value		Source	
	LC50	9	` '	Fish			>1000m	a/l	2	
4,4'-diphenylmethane	BCF		72				61-150		7	
diisocyanate (MDI)	NOEC(ECx)		04		Fish Crustacea		>=10mg/l		2	
	EC50	7			Algae or other aquatic plants		>1640mg/l		2	
	1000	'	_	79	ao or outor aquato pra		7 10 1011	.9.		
MDI homopolymer	Endpoint	Т	Test Duration (hr)		Species		Value		Source	
	LC50	9	6	Fish		>1000mg/l		2		
ino nonopolymer	NOEC(ECx)	5	04	Cru	stacea		>=10mg	ı/l	2	
	EC50	7	2	Alga	ae or other aquatic pla	nts	>1640m	ıg/l	2	
	Endpoint		Test Duration (hr)		Species	Value		Source		

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 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

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#### WoodWeld Part A

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#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
silica amorphous	LOW	LOW
propylene carbonate	HIGH	HIGH
4,4'-diphenylmethane diisocyanate (MDI)	LOW (Half-life = 1 days)	LOW (Half-life = 0.24 days)

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
silica amorphous	LOW (LogKOW = 0.5294)
propylene carbonate	LOW (LogKOW = -0.41)
4,4'-diphenylmethane diisocyanate (MDI)	LOW (BCF = 15)

### Mobility in soil

Ingredient	Mobility
silica amorphous	LOW (KOC = 23.74)
propylene carbonate	LOW (KOC = 14.85)
4,4'-diphenylmethane diisocyanate (MDI)	LOW (KOC = 376200)

# **SECTION 13 Disposal considerations**

#### Waste treatment methods

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

#### Product / Packaging disposal

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.
- DO NOT recycle spilled material.
- Consult State Land Waste Management Authority for disposal.

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

Land transport (ADG): 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
Talc	Not Available
silica amorphous	Not Available
zeolites	Not Available
propylene carbonate	Not Available
4,4'-diphenylmethane diisocyanate (MDI)	Not Available
MDI homopolymer	Not Available
MDI, propoxylated	Not Available

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

Product name	Ship Type
Talc	Not Available
silica amorphous	Not Available
zeolites	Not Available
propylene carbonate	Not Available
4,4'-diphenylmethane diisocyanate (MDI)	Not Available
MDI homopolymer	Not Available
MDI, propoxylated	Not Available

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WoodWeld Part A

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

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

#### 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

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

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US AIHA Workplace Environmental Exposure Levels (WEELs)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US OSHA Permissible Exposure Limits - Annotated Table Z-1

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

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

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

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

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

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US OSHA Permissible Exposure Limits - Annotated Table Z-1 US OSHA Permissible Exposure Limits - Annotated Table Z-3

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

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

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

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

US DOE Temporary Emergency Exposure Limits (TEELs)

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

US NIOSH Recommended Exposure Limits (RELs)

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

#### propylene carbonate is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

# 4,4'-diphenylmethane diisocyanate (MDI) is found on the following regulatory lists

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

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US ACGIH Threshold Limit Values (TLV)

US AIHA Workplace Environmental Exposure Levels (WEELs)

US Clean Air Act - Hazardous Air Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Levels (PELs) - Table Z1 US OSHA Permissible Exposure Limits - Annotated Table Z-1

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

US TSCA New Chemical Exposure Limits (NCEL)

### MDI homopolymer is found on the following regulatory lists

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

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

### MDI, propoxylated is found on the following regulatory lists

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

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

#### **Federal Regulations**

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

# Section 311/312 hazard categories Flammable (Gases, Aerosols, Liquids, or Solids)

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)	Yes
Reproductive toxicity	No
Skin Corrosion or Irritation	Yes

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#### WoodWeld Part A

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

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

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
4,4'-diphenylmethane diisocyanate (MDI)	5000	2270

# State Regulations

#### US. California Proposition 65

Hazards Not Otherwise Classified

WARNING: This product can expose you to Talc which is known to the State of California to cause cancer.

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (Talc; propylene carbonate; 4,4'-diphenylmethane diisocyanate (MDI); MDI homopolymer; MDI, propoxylated)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (zeolites; MDI, propoxylated)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (MDI homopolymer; MDI, propoxylated)
Vietnam - NCI	Yes
Russia - ARIPS	No (MDI, propoxylated)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

# **SECTION 16 Other information**

Revision Date	03/23/2021
Initial Date	09/20/2020

# 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.

No



# PlasticBonder and WoodWeld J-B Weld Company LLC

Version No: 2.8
Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **09/03/2021** Print Date: **10/29/2021** S.GHS.USA.EN

#### **SECTION 1 Identification**

Product Identifier	
Product name	PlasticBonder and WoodWeld
Synonyms	50133 (Plastic Bonder Tan) Part B; 50151 (WoodWeld) Part B
Other means of identification	Not Available

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

Relevant identified uses Use acc	ording to manufacturer's directions.
----------------------------------	--------------------------------------

# 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 Sulphur Springs 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

Classification | Sensitisation (Respiratory) Category 1, Reproductive Toxicity Category 2, Sensitisation (Skin) Category 1

### Label elements

Hazard pictogram(s)



	_
Signal word	Dange

### Hazard statement(s)

riazara otatomorit(o)	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H317	May cause an allergic skin reaction.

#### Hazard(s) not otherwise classified

Not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200),

# Supplementary statement(s)

Not Applicable

# Precautionary statement(s) Prevention

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#### PlasticBonder and WoodWeld

P201	Obtain special instructions before use.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves and protective clothing.
P284	[In case of inadequate ventilation] wear respiratory protection.
P202	Do not handle until all safety precautions have been read and understood.
P272	Contaminated work clothing must not be allowed out of the workplace.

#### Precautionary statement(s) Response

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

#### Precautionary statement(s) Storage

P405 Store locked up.

#### 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
14807-96-6*	20-30	Talc
110-85-0	<0.25	piperazine
68909-20-6	1-5	silica amorphous

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

# **SECTION 4 First-aid measures**

#### Description of first aid measures

Eye Contact	If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, 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>

# 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**

- ▶ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

# Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.

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#### PlasticBonder and WoodWeld

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# Special protective equipment and precautions for fire-fighters

Fire Fighting	<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>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</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>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn. silicon dioxide (SiO2)</li> <li>May emit poisonous fumes.</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	Clean up all spills immediately. Avoid contact with skin and eyes.
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**

# Precautions for safe handling

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.

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	Secondary amines form salts with strong acids and can be oxidized to the corresponding nitrone using hydrogen peroxide, catalyzed by selenium dioxide  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.  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 are incompatible with strong oxidisers, manganese trioxide, chlorine trioxide, strong alkalis, metal oxides, concentrated orthophosphoric acid, viryl acetate may react vigorously when heated with alkali carbonates. Avoid strong acids, bases.	

# 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-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): Talc (containing asbestos)	Not Available	Not Available	Not Available	Use asbestos limit

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#### PlasticBonder and WoodWeld

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
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 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 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 ACGIH Threshold Limit Values (TLV)	Talc	Talc: Containing asbestos fibers	Not Available	Not Available	Not Available	A1
US ACGIH Threshold Limit Values (TLV)	Talc	Talc: Containing no asbestos fibers (Respirable particulate matter)	2 mg/m3	Not Available	Not Available	A4
US ACGIH Threshold Limit Values (TLV)	piperazine	Piperazine and salts, as piperazine (Inhalable fraction and vapor)	0.03 ppm	Not Available	Not Available	DSEN; RSEN A4
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 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 NIOSH Recommended	silica	Silica amerahaus	6 ma/m3	Not	Not	Not Available

# **Emergency Limits**

Exposure Limits (RELs)

Ingredient	TEEL-1	TEEL-2	TEEL-3
piperazine	0.09 ppm	8.9 ppm	54 ppm
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

Ingredient	Original IDLH	Revised IDLH
Talc	1,000 mg/m3	Not Available
piperazine	Not Available	Not Available
silica amorphous	3,000 mg/m3	Not Available

# **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.

6 mg/m3

Available

Available

#### Personal protection



amorphous



Silica, amorphous







# Eye and face protection

- Safety glasses with side shields.
- Chemical goggles.

#### Skin protection

#### See Hand protection below

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

#### Hands/feet protection

## 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

# 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]

# Other protection

- 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.
- 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.

Not Available

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Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

# **SECTION 9 Physical and chemical properties**

Information on basic physical and chemical properties					
Appearance	Tan Paste				
Physical state	Free-flowing Paste	Relative density (Water = 1)	Not Available		
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	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 (%)	Not Available		

# **SECTION 10 Stability and reactivity**

Vapour density (Air = 1)

Not Available

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

VOC g/L

Not Available

# **SECTION 11 Toxicological information**

# Information on toxicological effects

	· · · · · · · · · · · · · · · · · · ·
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.
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.
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.  There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.  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.
Еуе	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. 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. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility.

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Secondary amines may react with nitrites to form potentially carcinogenic N-nitrosamines.

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.

	TOXICITY		IRRITATION			
PlasticBonder and WoodWeld	Not Available		Not Available			
	TOXICITY IRRITATION					
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Eye: n		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) <sup>[1]</sup>			
	Oral(Rat) LD50; >5000 mg/kg <sup>[1]</sup>					
	TOXICITY		IRRITATION			
ninorozina	Dermal (rabbit) LD50: 4000 mg/kg <sup>[2]</sup>		Eye (rabbit): 0.25 mg/24h SEVERE			
piperazine	Oral(Rat) LD50; 1900 mg/kg <sup>[2]</sup>		Eye (rabbit): 0.75 mg SEVERE			
			Skin (rabbit): 500 mg open mild			
	TOXICITY	IDDIT	ATION			
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	, ,	Eye (rabbit): non-irritating *			
silica amorphous	Inhalation(Rat) LC50; >0.139 mg/L4h <sup>[1]</sup>	Eye: r	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>			
	Oral(Rat) LD50; >1000 mg/kg <sup>[1]</sup>	Skin (	Skin (rabbit): non-irritating *			
		Skin:	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>			

#### for piperazine:

Exposure to piperazine and its salts has clearly been demonstrated to cause asthma in occupational settings. No NOAEL can be estimated for respiratory sensitisation (asthma).

Although the LD50 levels indicate a relatively low level of oral acute toxicity (LD50 1-5 g/kg bw), signs of neurotoxicity may appear in humans after exposure to lower doses.

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.

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

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 known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound.

The material may produce respiratory tract irritation, and result in damage to the lung including reduced lung function.

The material may cause 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.

**NOTE:** Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA.

for hexahydrate [RTECS No.: TM 0850000]

# SILICA AMORPHOUS

**PIPERAZINE** 

Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these 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 in animal testing.

# PlasticBonder and WoodWeld & PIPERAZINE

Allergic reactions involving the respiratory tract are usually due to interactions between IgE antibodies and allergens and occur rapidly. Allergic potential of the allergen and period of exposure often determine the severity of symptoms.

Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure.

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type.

# PlasticBonder and WoodWeld & SILICA AMORPHOUS

For silica amorphous

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

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.

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

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

#### **Toxicity**

PlasticBonder and WoodWeld	Endpoint		Test Duration (hr)		Species	Value		Source	
	Not Available		Not Available		Not Available Not Availa		ailable Not Availal		able
	Endpoint	Test	Duration (hr)	Specie	s		Value		Source
Tala	LC50	96h		Fish	Fish		89581.016mg/l		2
Talc	NOEC(ECx)	720h		Algae	Algae or other aquatic plants		918.089mg/l		2
	EC50	96h		Algae	Algae or other aquatic plants		7202.7mg/l		2
	Endpoint		Test Duration (hr	)	Species	Va	lue	So	urce
	LC50	96h			Fish	>18	800mg/l	2	
piperazine	EC50	48h			Crustacea		21mg/l		
	BCF	1008h			Fish		<0.3-0.9		
	NOEC(ECx)	504h			Crustacea		12.5mg/l		
	Endpoint	Toet D	uration (hr)	Species			Value		Source

silica amorphous

EC0(ECx) 24h Crustacea >=10000mg/l EC50 72h Algae or other aquatic plants 14.1mg/l 2 2 LC50 96h Fish 1033.016mg/l EC50 48h Crustacea >86mg/l 2 2 EC50 96h 217.576mg/l Algae or other aquatic plants

Microbial methylation plays important roles in the biogeochemical cycling of the metalloids and possibly in their detoxification. Many microorganisms (bacteria, fungi, and yeasts) and animals are now known to biomethylate arsenic, forming both volatile (e.g., methylarsines) and nonvolatile (e.g., methylarsonic acid and dimethylarsinic acid) compounds. For Amorphous Silica: Amorphous silica is chemically and biologically inert. It is not biodegradable. For Silica:

Environmental Fate: Most documentation on the fate of silica in the environment concerns dissolved silica, in the aquatic environment, regardless of origin, (man-made or natural), or structure, (crystalline or amorphous).

Terrestrial Fate: Silicon makes up 25.7% of the Earth's crust, by weight, and is the second most abundant element, being exceeded only by oxygen.

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

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
piperazine	LOW	LOW
silica amorphous	LOW	LOW

#### **Bioaccumulative potential**

	<del></del>
Ingredient	Bioaccumulation
piperazine	LOW (BCF = 3.9)
silica amorphous	LOW (LogKOW = 0.5294)

#### Mobility in soil

Ingredient	Mobility
piperazine	LOW (KOC = 52.71)
silica amorphous	LOW (KOC = 23.74)

# **SECTION 13 Disposal considerations**

#### Waste treatment methods

Containers may still present a chemical hazard/ danger when empty.

Product / Packaging disposal 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**

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

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#### 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
Talc	Not Available
piperazine	Not Available
silica amorphous	Not Available

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

Product name	Ship Type
Talc	Not Available
piperazine	Not Available
silica amorphous	Not Available

# **SECTION 15 Regulatory information**

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

#### 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

US - Massachusetts - Right To Know Listed Chemicals

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

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 TSCA Chemical Substance Inventory - Interim List of Active Substances

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

US - Massachusetts - Right To Know Listed Chemicals

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US DOE Temporary Emergency Exposure Limits (TEELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

# 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

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

US - California - Biomonitoring - Priority Chemicals

US - California Proposition 65 - Carcinogens

 $\ensuremath{\mathsf{US}}$  - 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)

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 TSCA Chemical Substance Inventory - Interim List of Active Substances

### **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
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	Yes
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	

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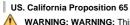
Specific target organ toxicity (single or repeated exposure)		No
Aspiration Hazard		No
Germ cell mutagenicity		No
Simple Asphyxiant		No
Hazards Not Otherwise Classified		Yes

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

None Reported

#### **State Regulations**

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WARNING: WARNING: This product can expose you to chemicals including Talc (Mg3H2(SiO3)4), Carbon black, Quartz (SiO2), furan, propylene oxide; 1,2-epoxypropane methyloxirane, acetaldehyde; ethanal, which is/are known to the State of California to cause cancer.. For more information, go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>. For more information informatio

National Inventory	Status		

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

Revision Date	09/03/2021
Initial Date	03/14/2021

#### 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.