

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name

CAS#

Product use Manufacturer WaterWeld

Mixture

Repairs and seals

J-B Weld Company

P.O. Box 483

Sulphur Springs, TX 75482 US

Phone: 903-885-7696

2. Hazards Identification

Emergency overview

CAUTION

MAY CAUSE SKIN IRRITATION. MAY CAUSE EYE IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Ingestion.

Eyes

May cause irritation.

Skin Contact with a

Contact with skin can cause irritation and allergic reaction (sensitization) in some

individuals.

Inhalation

Not a normal route of exposure.

Ingestion

May cause stomach distress, nausea or vomiting.

Target organs

Eyes. Skin.

Chronic effects

Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms

Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting

This product is a "Hazardous Chemical" as defined by the OSHA Hazard

OSHA Regulatory Status

Communication Standard, 29 CFR 1910.1200.

See section 12.

Potential environmental effects

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Hydrous magnesium silicate	14807-96-6	30 - 60
Oxirane, 2,2-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis, homopolymer	25085-99-8	10 - 30
Titanium oxide	13463-67-7	10 - 30
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3	1 - 5
Chlorite-group minerals	1318-59-8	1 - 5
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	90-72-2	1 - 5
Silica, amorphous, fumed	7631-86-9	1 - 5
Silica-crystalline, quartz	14808-60-7	0.1 - 1

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation Not a normal route of exposure.

Ingestion Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

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General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eves and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media Dry chemical. Foam. Carbon dioxide.

Unsuitable extinguishing media

Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of

sulphur.

Explosion data

Sensitivity to mechanical

impact

Sensitivity to static discharge

Not available

Not available

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Environmental precautions Methods for containment Methods for cleaning up

Prevent entry into waterways, sewers, basements or confined areas.

Stop the flow of material, if this is without risk.

Before attempting clean up, refer to hazard data given above. Dampen material with water and use shovel or scoop to collect material in clean container for proper disposal. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Cured material can be scraped up and disposed of.

7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material.

Avoid contact with eyes, skin and clothing.

Avoid prolonged or repeated skin contact with this material.

Wash thoroughly after handling.

Storage

Keep out of reach of children. Store in a closed container away from incompatible

materials.

8.	Exposure	Controls /	Personal	Protection
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Exposure limits		
Ingredient(s)		Exposure Limits
Bisphenol A diglycidyl ether - bisphenol A copolymer		ACGIH-TLV
		Not established
		OSHA-PEL
		Not established
Chlorite-group minerals		ACGIH-TLV
		Not established
		OSHA-PEL
		Not established
Hydrous magnesium silicate		ACGIH-TLV
•		TWA: 2 mg/m3
		OSHA-PEL
		Not established
Oxirane,		ACGIH-TLV
2,2-[(1-methylethylidene)bis(4,1-phen	yleneoxymethylene)]	Not established
homopolymer		OSHA-PEL
		Not established
Phenol, 2,4,6-tris[(dimethylamino)methyl]-		ACGIH-TLV
		Not established
		OSHA-PEL
		Not established
Silica, amorphous, fumed		ACGIH-TLV
		Not established
		OSHA-PEL
		Not established
Silica-crystalline, quartz		ACGIH-TLV
		TWA: 0.1 mg/m3
		OSHA-PEL
		TWA: 0.1 mg/m3
Titanium oxide	and the second s	ACGIH-TLV
		TWA: 10 mg/m3
		OSHA-PEL
		TWA: 15 mg/m3
Engineering controls Personal protective equipment	General ventilation normally adequate.	
Eye / face protection	Cofoty aloggod if a	vo contact is possible
Sulviy glasses ii sys si		onfirm with a reputable supplier first.
Skin and body protection	ployer code.	
Respiratory protection		uideline levels may be exceeded, use an approved NIOSH respirator.

9. Physical and Chemical Properties

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

Appearance	Pliable
Color	Off white
Form	Putty

General hygiene considerations

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Odor hreshold Not available
Not available

Physical state Solid

pH Not available
Melting point Not available
Freezing point Not available
Boiling point Not available
Pour point Not available
Evaporation rate

> 140 °F (> 60.00 °C)

Auto-ignition temperature

Flammability limits in air, lower, %

by volume

Not available Not applicable

Not applicable

Flammability limits in air, upper, %

by volume

Vapor pressure
Vapor density
Specific gravity
Octanol/water coefficient
Percent volatile

Not available
Not available
Not available

10. Stability and Reactivity

Reactivity None known.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid

Do not mix with other chemicals.

Incompatible materials

Acids. Oxidizers. Caustics.

Hazardous decomposition products May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of

sulphur.

11. Toxicological Information

Component analysis - LC50		
Ingredient(s)	LC50	
Bisphenol A diglycidyl ether - bisphenol A copolymer	Not available	
Chlorite-group minerals	Not available	
Hydrous magnesium silicate	Not available	
Oxirane, 2,2-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] homopolymer	Not available	
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	Not available	
Silica, amorphous, fumed	Not available	
Silica-crystalline, quartz	Not available	
Titanium oxide	Not available	

Component analysis - Oral LD50

Ingredient(s)	LD50
Bisphenol A diglycidyl ether - bisphenol A copolymer	Not available
Chlorite-group minerals	Not available
Hydrous magnesium silicate	Not available
Oxirane, 2,2-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] homopolymer	30000 mg/kg rat
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	1200 mg/kg rat
Silica, amorphous, fumed	5000 mg/kg rat
Silica-crystalline, quartz	500 mg/kg rat
	<u> </u>

Effects of acute exposure

Titanium oxide

Eye May cause irritation.

Skin Contact with skin can cause irritation and allergic reaction (sensitization) in some

individuals.

Inhalation Not a normal route of exposure.

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization Contains a potential skin sensitizer.

Chronic effects

Fibrosis was observed in rats exposed to 6 mg/m3 of hydrous magnesium silicate (talc)

for 113 or 122 weeks. Chronic respiratory disease has been observed in workers exposed to up to 3.0 mg/m3 of airborne talc ore free of asbestos and silica. Prolonged or repeated exposure to fine airborne crystalline silica dust may cause severe scarring of the lungs, a disease called silicosis. Early symptoms of silicosis include cough, mucous production and shortness of breath upon exertion. Product is a non respirable form.

Carcinogenicity

High concentrations of pigment-grade (powdered) and ultrafine titanium dioxide

(titanium oxide) dust have caused respiratory tract cancer in rats exposed by inhalation

and intratracheal instillation. Product is a non respirable form.

24000 mg/kg rat

ACGIH - Threshold Limit Values - Carcinogens

Hydrous magnesium silicate 14807-96-6 A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers) Silica-crystalline, quartz 14808-60-7 A2 - Suspected Human Carcinogen

Titanium oxide 13463-67-7 A4 - Not Classifiable as a Human Carcinogen

IARC - Group 1 (Carcinogenic to Humans)

Silica-crystalline, quartz 14808-60-7 Monograph 100C [in preparation] (listed under Crystalline silica inhaled in the form of

quartz or cristobalite from occupational sources); Monograph 68 [1997]

IARC - Group 2B (Possibly Carcinogenic to Humans)

Titanium oxide 13463-67-7 Monograph 93 [2010]; Monograph 47 [1989]

IARC - Group 3 (Not Classifiable)

Hydrous magnesium silicate 14807-96-6 Monograph 93 [2010] (inhaled); Supplement 7 [1987]; Monograph 42 [1987]

Silica, amorphous, fumed 7631-86-9 Monograph 68 [1997]; Supplement 7 [1987]

NTP (National Toxicology Program) - Report on Carcinogens - Known Human Carcinogens

Silica-crystalline, quartz 14808-60-7 Known Human Carcinogen (respirable size)

U.S. - California - Proposition 65 - Carcinogens List

Silica-crystalline, quartz 14808-60-7 carcinogen, initial date 10/1/88 (airborne particles of respirable size)
Titanjum oxide 13463-67-7 carcinogen, initial date 9/2/11 (airborne, unbound particles of respirable size)

Mutagenicity Non-hazardous by WHMIS/OSHA criteria.

Reproductive effects
Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity
Non-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic Not available

Products

12. Ecological Information

Ecotoxicity

See below

Ecotoxicity - Freshwater Algae - Acute Toxicity Data

Silica, amorphous, fumed 7631-86-9 72 Hr EC50 Pseudokirchneriella subcapitata: 440 mg/L

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Hydrous magnesium silicate 14807-96-6 96 Hr LC50 Brachydanio rerio: >100 g/L [semi-static] Silica, amorphous, fumed 7631-86-9 96 Hr LC50 Brachydanio rerio: 5000 mg/L [static]

Ecotoxicity - Water Flea - Acute Toxicity Data

Silica, amorphous, fumed 7631-86-9 48 Hr EC50 Ceriodaphnia dubia: 7600 mg/L

Persistence / degradability Not available Bioaccumulation / accumulation Not available Mobility in environmental media Not available **Environmental effects** Not available **Aquatic toxicity** Not available Partition coefficient Not available Chemical fate information Not available Other adverse effects

13. Disposal Considerations

Disposal instructions

Waste from residues / unused

products

Contaminated packaging

Review federal, state/provincial, and local government requirements prior to disposal.

Not available

Not available

Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Batch 12, published December 26, 2009

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada - CEPA - High Priority Chemicals as Identified by DSL Categorization

Silica-crystalline, quartz 14808-60-7

Canada - WHMIS - Ingredient Disclosure List

Silica, amorphous, fumed 7631-86-9 14808-60-7

Silica-crystalline, quartz

WHMIS status

Controlled

WHMIS classification

Class D - Division 2A, 2B

WHMIS labeling



Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

CERCLA (Superfund) reportable quantity

Acetic acid: 5000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No. Reactivity Hazard - No

Section 302 extremely hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA)

Not available

Clean Water Act (CWA)

Hazardous substance

State regulations

This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Hydrous magnesium silicate Silica, amorphous, fumed

14807-96-6 7631-86-9

Present (exempt except when inhalable dust is present or can be generated by use) Present (exempt except when inhalable particulates are present or can be generated. Applies to Silica sand and flour, but not to naturally occurring dirt and sand which have not gone through beneficiation)

U.S. - California - Proposition 65 - Carcinogens List

Silica-crystalline, quartz Titanium oxide

14808-60-7 13463-67-7

carcinogen, initial date 10/1/88 (airborne particles of respirable size) carcinogen, initial date 9/2/11 (airborne, unbound particles of respirable size)

U.S. - Illinois - Toxic Air Contaminant Carcinogens

Silica-crystalline, quartz Titanium oxide

14808-60-7 13463-67-7

ACGIH Carcinogen; NTP Known Carcinogen

IARC 2B Carcinogen

U.S. - Massachusetts - Right To Know List

Hydrous magnesium silicate 14807-96-6 Present (exempt when encapsulated or if particulates are not present and cannot be

substantially generated through use of the product)

Silica, amorphous, fumed 7631-86-9

Present (exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product) Carcinogen; Extraordinarily hazardous

Silica-crystalline, quartz 14808-60-7

Present 13463-67-7

U.S. - Minnesota - Hazardous Substance List

Hydrous magnesium silicate Silica, amorphous, fumed Silica-crystalline, quartz

Titanium oxide

Titanium oxide

14807-96-6 7631-86-9 14808-60-7 13463-67-7 Present (fibrous, nonasbestiform, dust and fume)

Carcinogen Carcinogen Present (dust)

U.S. - New Jersey - Right to Know Hazardous Substance List

Hydrous magnesium silicate Silica, amorphous, fumed Silica-crystalline, quartz Titanium oxide

14807-96-6 7631-86-9 14808-60-7 13463-67-7

sn 1773 sn 1655 (fume) sn 1660 sn 1861

U.S. - Pennsylvania - RTK (Right to Know) List

Hydrous magnesium silicate Silica, amorphous, fumed Silica-crystalline, quartz

14807-96-6 7631-86-9 14808-60-7 13463-67-7

Present Present Present (dust) Present

U.S. - Rhode Island - Hazardous Substance List

Hydrous magnesium silicate Silica-crystalline, quartz

14807-96-6 14808-60-7

Toxic (powder or fibrous) Toxic (dust and fiber) Toxic

Titanium oxide 13463-67-7

Inventory name

Titanium oxide

Country(s) or region Inventory name Canada

On inventory (yes/no)*

Canada

Domestic Substances List (DSL) Non-Domestic Substances List (NDSL)

Yes No

Yes

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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16. Other Information

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Disclaimer

issue date

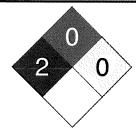
Expiry date

Prepared by

Other information

Effective date





Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

10-May-2012

01-May-2012

01-May-2015

Dell Tech Laboratories Ltd. (519) 858-5021

For an updated MSDS, please contact the supplier/manufacturer listed on the first

page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.