SECTION 1: Identification

Product identifier

Product name: J-B Weld Plastic Bonder Tan - Part B
Product code: 50133

Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable.
Uses advised against: Not determined or not applicable.
Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:
United States
J-B Weld Company, LLC
400 CMH Road
Sulphur Springs, TX 75482
903-885-7696
info@jbweld.com

Emergency telephone number:

United States
CHEMTREC
Transportation Emergencies (24 hour): 800-424-9300 or
703-527-3887
Poison Control Centers (24 hour): medical emergencies 800-222-1222

SECTION 2: Hazard(s) identification

GHS classification:

Reproductive toxicity, category 2

Label elements

Hazard pictograms:

Signal word: Warning

Hazard statements:

H361 Suspected of damaging fertility or the unborn child.

Precautionary statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 If exposed or concerned: Get medical advice/attention
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 14807-96-6	Talc	25-30
CAS number: 110-85-0	Piperazine	0.1-0.5
CAS number: 1318-02-1	Zeolite	0.5-1.5
CAS number: 280-57-9	1,4-Diazabicyclooctane	0.1-0.5
CAS number: 9082-00-2	Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)	25-27
CAS number: 68909-20-6	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	1-5
CAS number: 25723-16-4	Propylidynetrimethanol, propoxylated	35-40
CAS number: 71011-26-2	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with hectorite	25-30
CAS number: 57047-34-4	Isocyanic acid, polymethylenepolyphenylene ester, polymer with α-hydro-ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)] ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	3-5

Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention

After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition
Water spray, foam, Carbon dioxide (CO2), Dry chemical

Unsuitable extinguishing media:

High volume water jet

Specific hazards during fire-fighting:

Do not allow run-off from fire fighting to enter drains or water courses
Thermal decomposition can lead to release of irritating gases and vapors
Hazardous decomposition products may include Aldehyde, Carbon dioxide (C02), Carbon monoxide, Ketones, Nitrogen oxides, Chlorine compounds, halogenated hydrocarbons

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Not determined or not applicable.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation
Ensure air handling systems are operational
Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment
Prevent from reaching drains, sewer or waterway
If the product contaminates rivers and lakes or drains inform respective authorities

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing
Absorb with non-combustible liquid-binding material (sand, diatomaceus earth (clay), acid binders, universal binders)
Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation.
Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.
Protect from freezing and physical damage.
Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Talc	14807-96-6	OSHA PEL Ceiling 20 mppcf
	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	68909-20-6	OSHA PEL TWA 5 mg/m³ (respirable - particulates not otherwise classified)
	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	68909-20-6	OSHA PEL TWA 15 mg/m³ (total dust - particulates not otherwise classified)
ACGIH	Talc	14807-96-6	ACGIH TLV TWA 2 mg/m³; (Inhalable particulate matter containing no asbestos and < 1% crystalline silica)
	Piperazine	110-85-0	8-Hour Exposure Limit (TLV-TWA): 0.03 ppm
NIOSH	Talc	14807-96-6	NIOSH REL TWA 2.0 mg/m³

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.
Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.
Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.
Wash hands before breaks and at the end of work.
Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid
Odor	Not determined or not available.
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	>200°C
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	16,000 - 30,000 cps (25°C)
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

No decomposition if stored and applied as directed.

Chemical stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

Product will not undergo hazardous polymerization.

Conditions to avoid:

Heat.
Exposure to moisture.

Incompatible materials:

Alkalis, isocyanates, oxidizers, Phosphorus compounds, strong acids, strong oxidizing agents.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Piperazine	dermal	LD50 Rabbit: 8,300 mg/kg
	oral	LD50 Mouse: 6,200 mg/kg
1,4-Diazabicyclooctane	oral	LD50 - Rat - 1,700 mg/kg

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Piperazine	Causes severe skin burns and eye damage.
1,4-Diazabicyclooctane	Irritating to the skin.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
1,4-Diazabicyclooctane	Corrosive effect on the eyes.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Piperazine	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Talc	Group 3 - Not classifiable as to its carcinogenicity to humans
Zeolite	Group 3

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment:

Suspected of damaging fertility or the unborn child

Product data:

No data available.

Substance data:

Name	Result
Piperazine	Suspected of damaging fertility. Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
Piperazine	Readily biodegradable in water.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data:

Name	Result
Piperazine	Moderately Mobile (Koc: 507)

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. Do not dispose of waster into sewer. Do not contaminate ponds, waterways or ditches with chemicals or used container. Send to licensed waste management company

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

14807-96-6	Talc	Listed
110-85-0	Piperazine	Listed
1318-02-1	Zeolite	Not Listed
280-57-9	1,4-Diazabicyclooctane	Listed
9082-00-2	Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)	Listed
25723-16-4	Propylidynetrimethanol, propoxylated	Listed
71011-26-2	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with hectorite	Listed
57047-34-4	Isocyanic acid, polymethylenepolyphenylene ester, polymer with α-hydro-ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)] ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	Not Listed
68909-20-6	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	Listed

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.
Export notification under TSCA Section 12(b): None of the ingredients are listed.
SARA Section 302 extremely hazardous substances: None of the ingredients are listed.
SARA Section 313 toxic chemicals: None of the ingredients are listed.
CERCLA: None of the ingredients are listed.
RCRA: None of the ingredients are listed.
Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.
Massachusetts Right to Know:

14807-96-6	Talc	Listed
110-85-0	Piperazine	Listed
1318-02-1	Zeolite	Not Listed

280-57-9	1,4-Diazabicyclooctane	Not Listed
9082-00-2	Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)	Not Listed
25723-16-4	Propylidynetrimethanol, propoxylated	Not Listed
71011-26-2	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with hectorite	Not Listed
57047-34-4	Isocyanic acid, polymethylenepolyphenylene ester, polymer with α-hydro-ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)] ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	Not Listed
68909-20-6	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	Not Listed

New Jersey Right to Know:

14807-96-6	Talc	Listed
110-85-0	Piperazine	Listed
1318-02-1	Zeolite	Not Listed
280-57-9	1,4-Diazabicyclooctane	Not Listed
9082-00-2	Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)	Not Listed
25723-16-4	Propylidynetrimethanol, propoxylated	Not Listed
71011-26-2	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with hectorite	Not Listed
57047-34-4	Isocyanic acid, polymethylenepolyphenylene ester, polymer with α-hydro-ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)] ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	Not Listed
68909-20-6	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	Not Listed

New York Right to Know:

14807-96-6	Talc	Not Listed
110-85-0	Piperazine	Listed
1318-02-1	Zeolite	Not Listed
280-57-9	1,4-Diazabicyclooctane	Listed
9082-00-2	Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)	Not Listed
25723-16-4	Propylidynetrimethanol, propoxylated	Not Listed
71011-26-2	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with hectorite	Not Listed
57047-34-4	Isocyanic acid, polymethylenepolyphenylene ester, polymer with α-hydro-ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)] ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	Not Listed

68909-20-6	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	Not Listed

Pennsylvania Right to Know:

14807-96-6	Talc	Listed
110-85-0	Piperazine	Listed
1318-02-1	Zeolite	Not Listed
280-57-9	1,4-Diazabicyclooctane	Not Listed
9082-00-2	Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)	Not Listed
25723-16-4	Propylidynetrimethanol, propoxylated	Not Listed
71011-26-2	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with hectorite	Not Listed
57047-34-4	Isocyanic acid, polymethylenepolyphenylene ester, polymer with α-hydro-ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)] ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	Not Listed
68909-20-6	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	Not Listed

California Proposition 65:

⚠**WARNING:** This product can expose you to chemicals including Talc and Quartz/Sand which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 0-1-0

Initial preparation date: 02.11.2019

Revision date: 06.07.2023

End of Safety Data Sheet

J-B Weld Plastic Bonder - Part A

SECTION 1: Identification

Product identifier

Product name: J-B Weld Plastic Bonder - Part A
Product code: 50133, 50139

Recommended use of the product and restriction on use

Relevant identified uses: Adhesives
Uses advised against: Not determined or not applicable.
Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:
United States
J-B Weld Company, LLC
400 CMH Road
Sulphur Springs, TX 75482
903-885-7696
info@jbweld.com

Emergency telephone number:

United States
CHEMTREC
Transportation Emergencies (24 hour): 800-424-9300 or
703-527-3887
Poison Control Centers (24 hour): medical emergencies 800-222-1222

SECTION 2: Hazard(s) identification

GHS classification:

Eye irritation, category 2A
Skin irritation, category 2
Skin sensitization, category 1
Respiratory sensitization, category 1
Acute toxicity (inhalation), category 4
Specific target organ toxicity - single exposure, category 3, respiratory irritation
Specific target organ toxicity - repeated exposure, category 2

Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements:

H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to respiratory system through prolonged or repeated exposure by inhalation.

Precautionary statements:

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing must not be allowed out of the workplace.
P285 In case of inadequate ventilation wear respiratory protection.
P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists get medical advice/attention
P321 Specific treatment (see supplemental first aid instructions on this label).
P362 Take off contaminated clothing and wash before reuse
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention
P363 Wash contaminated clothing before reuse
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P314 Get medical advice/attention if you feel unwell
P405 Store locked up.
P403+P233 Store in a well ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 14807-96-6	Talc	10-15
CAS number: 68611-44-9	Silane, dichlorodimethyl-, reaction products with silica	1-5
CAS number: 1318-02-1	Zeolite	10-15
CAS number: 108-32-7	1,2-Propanediol Carbonate	0.5-2.5
CAS number: 101-68-8	4,4'-Methylenediphenyl diisocyanate	30-40
CAS number: 25686-28-6	4,4'-Methylenediphenyl diisocyanate, oligomers	5-15
CAS number: 57596-50-6	Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	5-10

J-B Weld Plastic Bonder - Part A

CAS number: 9048-57-1	Diphenylmethane-4,4'-diisocyanate, polypropylene glycol polymer	20-25

Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Get medical advice/attention if you feel unwell
Take precautions to ensure your own safety
Remove source of exposure or move person to fresh air
Get medical advice if you feel unwell or concerned

After skin contact:

Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention
Take off all contaminated clothing
Gently blot or brush away excess product
Wash with plenty of lukewarm, gently flowing water
Get medical advice if skin irritation occurs or you feel unwell

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention
Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open
Remove contact lenses, if present and easy to do so
Continue rinsing for 15-20 minutes
Get medical advice if eye irritation persists

After swallowing:

Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition
Suitable agents: water spray, foam, Carbon dioxide (CO2), dry chemical

Unsuitable extinguishing media:

High volume water jet

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors
Do not allow run-off from fire fighting to enter drains or water courses
Hazardous combustion will lead to the release of Carbon dioxide (CO2), Carbon monoxide, Nitrogen oxides (NOx), Hydrogen cyanide (hydrocyanic acid), Isocyanates, other hydrocarbons

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Not determined or not applicable.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation
Ensure air handling systems are operational
Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment
Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing
Absorb with non-combustible liquid-binding material (sand, diatomaceus earth (clay), acid binders, universal binders)
Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation.
Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.
Avoid formation of aerosol.
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.
Protect from freezing and physical damage.
Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Talc	14807-96-6	OSHA PEL Ceiling 20 mppcf
	Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	8-Hour TWA: 0.8 mg/m³
	4,4'-Methylenediphenyl diisocyanate	101-68-8	TWA: 0.02 ppm (0.2 mg/m³)
ACGIH	Talc	14807-96-6	ACGIH TLV TWA 2 mg/m³; (Inhalable particulate matter containing no asbestos and < 1% crystalline silica)
	4,4'-Methylenediphenyl diisocyanate	101-68-8	TWA 0.0050 ppm
NIOSH	Talc	14807-96-6	NIOSH REL TWA 2.0 mg/m³
	4,4'-Methylenediphenyl diisocyanate	101-68-8	REL: 0.2 ppm (0.2 mg/m³)
	4,4'-Methylenediphenyl diisocyanate	101-68-8	TWA: 0.0050 ppm (0.05 mg/m³)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.
Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.
Wear appropriate clothing to prevent any possibility of skin contact.
Glove material: butyl-rubber.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.
Wash hands before breaks and at the end of work.
Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

J-B Weld Plastic Bonder - Part A

Appearance	Beige viscous liquid
Odor	Not determined or not available.
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	>392°F (>200°C)
Flash point (closed cup)	>100°C
Evaporation rate	<1 (n-Butyl Acetate = 1)
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	<0.01333 hPa (25°C)
Vapor density	Not determined or not available.
Density	1.288 g/cm³ (20°C)
Relative density	Not determined or not available.
Solubilities	Practically insoluble in water.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	ca. 20,000 mPa.s
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

Relative vapor density	>1 (Air = 1)

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

Freezing temperatures and exposure to moisture.

Incompatible materials:

Acids, alcohols, Aluminum, Amines, Ammonia, Bases, Copper alloys, Fluorides, Iron, Oxidizing agents, strong alkalies, strong reducing agents, Water, Zinc, Humid air.

Hazardous decomposition products:

Carbon monoxide, Carbon Dioxide (CO2), Nitrogen oxides (NOx), Acetone, Hydrocarbons.

SECTION 11: Toxicological information

Acute toxicity

Assessment:

Harmful if inhaled

Product data: No data available.

Substance data:

Name	Route	Result
4,4'-Methylenediphenyl diisocyanate	inhalation	LC50 - Rat - 369 mg/cu m/4 h
4,4'-Methylenediphenyl diisocyanate, oligomers	inhalation	LC50 - Rat: 0.49 mg/l (4 Hours)
1,2-Propanediol Carbonate	oral	LD50 Rat >5,000 mg/kg
	dermal	LD50 Rabbit >2,000 mg/kg

Skin corrosion/irritation

Assessment:

Causes skin irritation

Product data:

May cause skin irritation and/or dermatitis.

Substance data:

Name	Result
Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	Causes skin irritation.
4,4'-Methylenediphenyl diisocyanate	Irritating to the skin.
4,4'-Methylenediphenyl diisocyanate, oligomers	Causes skin irritation.

Serious eye damage/irritation

Assessment:

Causes serious eye irritation

Product data:

Vapors may cause irritation to the eyes, respiratory system and the skin. Causes serious eye irritation.

Substance data:

Name	Result
Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	Causes serious eye irritation.
4,4'-Methylenediphenyl diisocyanate	Moderate eye irritation.
4,4'-Methylenediphenyl diisocyanate, oligomers	Causes serious eye irritation.
1,2-Propanediol Carbonate	Causes serious eye irritation.

Respiratory or skin sensitization

Assessment:

May cause an allergic skin reaction

May cause allergy or asthma symptoms or breathing difficulties if inhaled

Product data:

No data available.

Substance data:

Name	Result
Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	May cause an allergic skin reaction.
	may cause allergy or asthma symptoms or breathing difficulties if inhaled.
4,4'-Methylenediphenyl diisocyanate	May cause sensitization by inhalation and skin contact.
4,4'-Methylenediphenyl diisocyanate, oligomers	May cause an allergic skin reaction.
	may cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Species	Result
4,4'-Methylenediphenyl diisocyanate		May cause cancer.

International Agency for Research on Cancer (IARC):

Name	Classification
Talc	Group 3 - Not classifiable as to its carcinogenicity to humans
Zeolite	Group 3

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment:

May cause respiratory irritation

Product data:

No data available.

Substance data:

Name	Result
Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	May cause respiratory irritation.
4,4'-Methylenediphenyl diisocyanate	Component affects the respiratory system through single and repeated exposure.
4,4'-Methylenediphenyl diisocyanate, oligomers	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Assessment:

May cause damage to organs through prolonged or repeated exposure

Product data:

No data available.

Substance data:

Name	Result
Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	May cause damage to organs through prolonged or repeated exposure by inhalation.
4,4'-Methylenediphenyl diisocyanate, oligomers	May cause damage to respiratory system through prolonged or repeated exposure by inhalation.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
1,2-Propanediol Carbonate	semi-static test LC50 - Cyprinus carpio (Carp) - > 1,000 mg/l - 96 h
	static test EC50 - Daphnia magna (Water flea) - > 1,000 mg/l - 48 h
	EC50 - Desmodesmus subspicatus (green algae) - > 900 mg/l - 72 h
	EC10 - Pseudomonas putida - 7,400 mg/l - 16 h

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
1,2-Propanediol Carbonate	Readily biodegradable.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None

Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

57596-50-6	Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	Listed
14807-96-6	Talc	Listed
1318-02-1	Zeolite	Not Listed
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica	Listed
9048-57-1	Diphenylmethane-4,4'-diisocyanate, polypropylene glycol polymer	Listed
101-68-8	4,4'-Methylenediphenyl diisocyanate	Listed
25686-28-6	4,4'-Methylenediphenyl diisocyanate, oligomers	Listed
108-32-7	1,2-Propanediol Carbonate	Listed

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals:

57596-50-6	Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	Not Listed
14807-96-6	Talc	Not Listed
1318-02-1	Zeolite	Not Listed
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica	Not Listed
9048-57-1	Diphenylmethane-4,4'-diisocyanate, polypropylene glycol polymer	Not Listed
101-68-8	4,4'-Methylenediphenyl diisocyanate	Listed
25686-28-6	4,4'-Methylenediphenyl diisocyanate, oligomers	Not Listed
108-32-7	1,2-Propanediol Carbonate	Not Listed

CERCLA:

101-68-8	4,4'-Methylenediphenyl diisocyanate	Listed	5000

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

57596-50-6	Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	Not Listed
14807-96-6	Talc	Listed
1318-02-1	Zeolite	Not Listed
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica	Not Listed
9048-57-1	Diphenylmethane-4,4'-diisocyanate, polypropylene glycol polymer	Not Listed
101-68-8	4,4'-Methylenediphenyl diisocyanate	Listed
25686-28-6	4,4'-Methylenediphenyl diisocyanate, oligomers	Not Listed
108-32-7	1,2-Propanediol Carbonate	Not Listed

New Jersey Right to Know:

57596-50-6	Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	Not Listed
14807-96-6	Talc	Listed
1318-02-1	Zeolite	Not Listed
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica	Not Listed
9048-57-1	Diphenylmethane-4,4'-diisocyanate, polypropylene glycol polymer	Not Listed
101-68-8	4,4'-Methylenediphenyl diisocyanate	Listed
25686-28-6	4,4'-Methylenediphenyl diisocyanate, oligomers	Not Listed
108-32-7	1,2-Propanediol Carbonate	Not Listed

New York Right to Know:

57596-50-6	Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	Not Listed
14807-96-6	Talc	Not Listed
1318-02-1	Zeolite	Not Listed
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica	Not Listed
9048-57-1	Diphenylmethane-4,4'-diisocyanate, polypropylene glycol polymer	Not Listed
101-68-8	4,4'-Methylenediphenyl diisocyanate	Listed
25686-28-6	4,4'-Methylenediphenyl diisocyanate, oligomers	Not Listed
108-32-7	1,2-Propanediol Carbonate	Not Listed

Pennsylvania Right to Know:

57596-50-6	Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	Not Listed
14807-96-6	Talc	Listed
1318-02-1	Zeolite	Not Listed
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica	Not Listed
9048-57-1	Diphenylmethane-4,4'-diisocyanate, polypropylene glycol polymer	Not Listed
101-68-8	4,4'-Methylenediphenyl diisocyanate	Listed
25686-28-6	4,4'-Methylenediphenyl diisocyanate, oligomers	Not Listed
108-32-7	1,2-Propanediol Carbonate	Not Listed

California Proposition 65:

⚠**WARNING:** This product can expose you to Talc (Mg3H2(SiO3)4); which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-1-0

HMIS: 2-0-0

Initial preparation date: 06.07.2023

End of Safety Data Sheet