J-B Weld Plastic Bonder – Part A

SECTION 1: Identification

Product identifier

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

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

Emergency telephone number:

North America
CHEMTREC
1-800-424-9300 (24 hour)

SECTION 2: Hazard 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:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 Wear respiratory protection.
P321 Specific treatment (see supplemental first aid instructions on this label).
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
P302+P352 IF ON SKIN: Wash with plenty of water/soap.
P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician.
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	7-13
CAS number: 108-32-7	1,2-Propanediol Carbonate	0.5-1.5
CAS number: 101-68-8	4,4'-Methylenediphenyl diisocyanate	15-40
CAS number: 25686-28-6	4,4'-Methylenediphenyl diisocyanate, oligomers	6.48-14.96
CAS number: 57596-50-6	Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	3-7

Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with the Canadian Hazardous Products Regulation and WHMIS 2015.

SECTION 4: First-aid measures

Description of first-aid measures

General notes:
Not determined or not available.

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 ingestion:
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 available.

Delayed symptoms and effects:
Not determined or not available.

Immediate medical attention and special treatment

Specific treatment:
Not determined or not available.

Notes for the doctor:
Not determined or not available.

SECTION 5: Fire-fighting 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
Canada	4,4'-Methylenediphenyl diisocyanate	101-68-8	Alberta: 8-Hour Exposure Limit TWA: 0.05 mg/m³ (0.005 ppm)
	4,4'-Methylenediphenyl diisocyanate	101-68-8	British Columbia: 8-Hour Exposure Value: 0.005 ppm
	4,4'-Methylenediphenyl diisocyanate	101-68-8	Ceiling exposure value: 0.01 ppm
	4,4'-Methylenediphenyl diisocyanate	101-68-8	Manitoba: 8-Hour Exposure Limit: 0.005 ppm
	4,4'-Methylenediphenyl diisocyanate	101-68-8	Ontario: 8-Hour Exposure Value: 0.005 ppm
	4,4'-Methylenediphenyl diisocyanate	101-68-8	Ontario: Ceiling Exposure Value: 0.02 ppm
	4,4'-Methylenediphenyl diisocyanate	101-68-8	Quebec: 8-Hour Exposure Value TWA: 0.051 mg/m³ (0.005 ppm)
	4,4'-Methylenediphenyl diisocyanate	101-68-8	Saskatchewan: 8-Hour average contamination limit: 0.005 ppm
	4,4'-Methylenediphenyl diisocyanate	101-68-8	Saskatchewan: 15-minute average contamination limit: 0.015 ppm
	Talc	14807-96-6	Alberta OELs - 8- hour TWA Exposure Limit: 2 mg/m³
	Talc	14807-96-6	British Columbia OELs - 8-Hour TWA Exposure Value: 2 mg/m³ (respirable)
	Talc	14807-96-6	Manitoba OELs - 8-Hour Exposure Limit (TLV-TWA): 2 mg/m³ (respirable fraction)
	Talc	14807-96-6	Ontario OELs - 8-Hour TWA Exposure Value (TWA): 2 mg/m³ (respirable fraction)
	Talc	14807-96-6	Quebec OELs - 8-Hour TWA Exposure Value: 3 mg/m³ (respirable fraction)
	Talc	14807-96-6	Saskatchewan OELs - 8 Hour Average Contamination Limit: 2 mg/m³ (respirable fraction)

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

Appearance (physical state, color):	Beige viscous liquid
Odor:	Not determined or not available.
Odor threshold:	Not determined or not available.
pH-value:	Not determined or not available.
Melting/Freezing point:	Not determined or not available.
Boiling point/range:	>392°F (>200°C)
Flash point:	>100°C
Evaporation rate:	<1 (n-Butyl Acetate = 1)
Flammability (solid, gaseous):	Not determined or not available.
Explosion limit upper:	Not determined or not available.
Explosion limit lower:	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.

Name	Result
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

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

Canadian Transportation of Dangerous Goods (TDG)

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

SECTION 15: Regulatory information

Canada regulations

Domestic substances list (DSL):

57596-50-6	Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	Listed
14807-96-6	Talc	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

Non-domestic substances list (NDSL): None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with the Canadian Hazardous Products Regulations and WHMIS 2015. 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.

Initial preparation date: 07.11.2019

End of Safety Data Sheet