

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 05.28.2020

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J-B Weld Plastic Bonder - Part A

SECTION 1: Identification

Product identifier

Product name: J-B Weld Plastic Bonder - Part A

Product code: 50133AUS, 50139AUS



Recommended use of the product and restriction on use

Relevant identified uses: Adhesive

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

Supplier:

Australia

HHP Lunds
1/195 Jackson Rd
Sunnybank Hills, Qld 4109
1300-306-781

Emergency telephone number:

Australia

InfoTrac

1300-366-961 (24 hours)

SECTION 2: Hazard(s) identification

GHS classification:

Skin irritation, category 2

Eye irritation, category 2A

Skin sensitization, category 1

Respiratory sensitization, category 1

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Specific target organ toxicity - repeated exposure, category 2

Acute toxicity (inhalation), category 4

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H315 Causes skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation

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H373 May cause damage to organs (respiratory system, respiratory tract) through prolonged or repeated exposure (inhalation)

H332 Harmful if inhaled

Precautionary statements:

P264 Wash hands thoroughly after handling

P280 Wear face protection

P272 Contaminated work clothing should not be allowed out of the workplace

P284 Wear respiratory protection

P271 Use only outdoors or in a well-ventilated area

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P321 Specific treatment (see supplemental first aid instruction on this label)

P362 Take off contaminated clothing and wash before reuse

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

P304+P340 IF INHALED: 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

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

P405 Store locked up

P501 Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified:

None

SECTION 3: Composition and information on ingredients

Identification	Name	Weight %
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: 108-32-7	Propylene carbonate	0.5-2.5
CAS number: 57596-50-6	Polypropylene glycol trimethylolpropane triether, 4,4'-diphenylmethane diisocyanate polymer	5-10
CAS number: 14807-96-6	Talc	10-15

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

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Show this Safety Data Sheet to the doctor in attendance.

After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If exposed, seek medical advice/attention.

After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After eye contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Skin contact may result in redness, pain, burning and inflammation.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

Inhalation exposure may cause allergy, asthma symptoms or breathing difficulties. Symptoms may include cough, chronic phlegm, shortness of breath, wheezing and chest tightness. Symptoms may be delayed.

Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract.

Acute inhalation exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

May cause damage to organs through prolonged or repeated exposure. Effects are dependent on exposure (dose, concentration, contact time).

Symptoms of exposure may be delayed.

Immediate medical attention and special treatment

Specific treatment:

If respiratory symptoms persist, seek medical attention.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Fire fighting measures

Extinguishing media

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Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

Specific hazards during fire-fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Do not get on skin, eyes or on clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up:

Harmful if inhaled. Put on appropriate personal protective equipment, including a self-contained breathing apparatus (see Section 8) before entering area of spill or leak. Avoid breathing dust, mist, fumes, vapors or spray. Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage precautions

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

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SECTION 8: Exposure controls and personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Australia	4,4'-methylenediphenyl diisocyanate	101-68-8	TWA: 0.02 mg/m ³
	4,4'-methylenediphenyl diisocyanate	101-68-8	STEL: 0.07 mg/m ³
	Talc	14807-96-6	TWA: 2.5 mg/m ³ (containing no asbestos fibers)

Biological limit values:

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

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal protection equipment

Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Viscous liquid
Odor	Not determined or not available.

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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/cm ³ (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)
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SECTION 10: Stability and reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical stability:

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to avoid:

Avoid confined spaces, extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Freezing temperatures and exposure to moisture.

Incompatible materials:

Acids, alcohols, aluminum, amines, ammonia, bases, copper alloys, fluorides, iron, oxidizing agents, strong alkalis, strong reducing agents, water, zinc, humid air.

Hazardous decomposition products:

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

SECTION 11: Hazard information

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J-B Weld Plastic Bonder - Part A

Acute toxicity

Assessment:

Harmful if inhaled.

Product data: No data available.

Substance data:

Name	Route	Result
4,4'-Methylenediphenyl diisocyanate, oligomers	oral	LD50 Rat: >5000 mg/kg
	inhalation	LC50 Rat: 0.49 mg/L (4h)
	dermal	LD50 Rabbit: >9400 mg/kg
Propylene carbonate	oral	LD50 Rat: 20700 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
Talc	oral	LD50 Rat: >5000 mg/kg

Skin corrosion/irritation

Assessment:

Causes skin irritation.

Product data:

No data available.

Substance data:

Name	Result
4,4'-methylenediphenyl diisocyanate	Causes skin irritation.
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.

Substance data:

Name	Result
4,4'-methylenediphenyl diisocyanate	Causes serious eye irritation.
4,4'-Methylenediphenyl diisocyanate, oligomers	Causes serious eye irritation.
Propylene 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:

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J-B Weld Plastic Bonder - Part A

Name	Result
4,4'-methylenediphenyl diisocyanate	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	May cause an allergic skin reaction.
4,4'-Methylenediphenyl diisocyanate, oligomers	Respiratory sensitization may cause allergy or asthma symptoms or breathing difficulties if inhaled.
	Skin sensitization may cause an allergic skin reaction.

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		Suspect of causing cancer.
4,4'-Methylenediphenyl diisocyanate, oligomers	Rat	Suspected of causing cancer by inhalation.
Talc		Talc containing asbestos is carcinogenic to humans.

International Agency for Research on Cancer (IARC):

Name	Classification
Talc	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
4,4'-methylenediphenyl diisocyanate	May cause respiratory irritation.
4,4'-Methylenediphenyl diisocyanate, oligomers	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

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J-B Weld Plastic Bonder - Part A

Assessment:

May cause damage to organs through prolonged or repeated exposure.

Product data:

No data available.

Substance data:

Name	Result
4,4'-methylenediphenyl diisocyanate	May cause damage to respiratory system through prolonged or repeated inhalation.
4,4'-Methylenediphenyl diisocyanate, oligomers	May cause damage to organs through prolonged or repeated exposure.

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:

Inhalation, eye contact, skin contact, ingestion.

Symptoms related to the physical, chemical and toxicological characteristics:

Refer to Section 4 of this SDS.

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
Propylene carbonate	EC50 Daphnia magna: >1000 mg/L (48 hours)
	EC50 Freshwater algae: >900 mg/L (72 hours)

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
4,4'-Methylenediphenyl diisocyanate, oligomers	This substance is not readily biodegradable.
Propylene carbonate	Readily biodegradable (97% degradation in 28 days).
Talc	Biodegradation is not applicable to inorganic substances.

Bioaccumulative potential

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J-B Weld Plastic Bonder - Part A

Product data: No data available.

Substance data:

Name	Result
4,4'-Methylenediphenyl diisocyanate, oligomers	No data is available on terrestrial bioaccumulation for the test substance, but it is not required under REACH.
Propylene carbonate	No bioaccumulation is expected based on the low log Kow (log Pow = -0.41) and the property of readily biodegradability of the substance.
Talc	No potential for bioaccumulation.

Mobility in soil

Product data: No data available.

Substance data:

Name	Result
4,4'-Methylenediphenyl diisocyanate, oligomers	This substance is unlikely to be adsorbed by the soil/sediment.
Propylene carbonate	Log Koc: 0.81

Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment:

4,4'-Methylenediphenyl diisocyanate, oligomers	This substance is not PBT.
Propylene carbonate	Substance is not PBT.
Talc	The substance is inorganic, and as such the criteria for PBT are not applicable.

vPvB assessment:

4,4'-Methylenediphenyl diisocyanate, oligomers	This substance is not vPvB.
Propylene carbonate	Substance is not vPvB.
Talc	The substance is inorganic, and as such the criteria for vPvB are not applicable.

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

Contaminated packages:

Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14: Transport information

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J-B Weld Plastic Bonder - Part A

Australian Dangerous Goods (ADG)

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

Australia regulations

Australian Inventory of Chemical Substances (AICS): All ingredients are listed or exempt.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):

Ingredient Name	CAS	Schedules
4,4'-methylenediphenyl diisocyanate	101-68-8	6

SECTION 16: Other information

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J-B Weld Plastic Bonder - Part A

Abbreviations and Acronyms: None

Disclaimer:

This SDS was authored in accordance with the Australian Work Health and Safety Regulations and supplemented by the Australian Code of Practice on the Preparation of Safety Data Sheets for Hazardous Chemicals. 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: 05.28.2020

Revision Notes:

Revision Date	Notes
2020-05-28	Composition change; classification change; occupational exposure limits present in current SDS; transportation classification change.

Additional information:

Version 2

End of Safety Data Sheet

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J-B Weld Plastic Bonder Black - Part B

SECTION 1: Identification

Product identifier

Product name: J-B Weld Plastic Bonder Black - Part B

Product code: 50139AUS



Recommended use of the product and restriction on use

Relevant identified uses: Adhesive

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

Supplier:

Australia

HPP Lunds
1/195 Jackson Rd
Sunnybank Hills, Qld 4109
1300-306-781

Emergency telephone number:

Australia

InfoTrac

1300-366-961 (24 hours)

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 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

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J-B Weld Plastic Bonder Black - Part B

SECTION 3: Composition and information on ingredients

Identification	Name	Weight %
CAS number: 14807-96-6	Talc	10-30
CAS number: 110-85-0	Piperazine	<1
CAS number: 280-57-9	1,4-Diazabicyclooctane	<1
CAS number: 1333-86-4	Bounded Carbon Black	<1

Additional Information:

CAS # 1333-86-4 is classified as a carcinogen only in its respirable form. Since this substance in this product is not respirable, the product itself is not classified as a carcinogen in the form presented.

SECTION 4: First aid measures

Description of first aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance.

After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After eye contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Long term exposure may affect fertility. Symptoms include, but are not limited to: menstrual problems, altered sexual behavior/fertility/ and pregnancy outcome. Long term exposure may also affect development of the unborn child. Symptoms include, but are not limited to: intrauterine growth retardation, pre-term birth, birth defects and postnatal death.

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Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Fire fighting measures

Extinguishing media

Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

Specific hazards during fire-fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA with a full-face piece operated in positive pressure mode).

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage precautions

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not

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in use.

Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure controls and personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Australia	Talc	14807-96-6	TWA: 2.5 mg/m ³ (containing no asbestos fibers)
	Bounded Carbon Black	1333-86-4	8-Hour TWA: 3 mg/m ³ (Workplace Exposure Standards for Airborne Contaminants)

Biological limit values:

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

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal protection equipment

Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

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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	1.222
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 handling and storage conditions.

Possibility of hazardous reactions:

Product will not undergo hazardous polymerization.

Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.
Exposure to moisture.

Incompatible materials:

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

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Hazard information

Acute toxicity

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

Product data: No data available.

Substance data:

Name	Route	Result
Talc	oral	LD50 Rat: >5000 mg/kg
Piperazine	dermal	LD50 Rabbit: 8300 mg/kg
	oral	LD50 Mouse: 6200 mg/kg
1,4-Diazabicyclooctane	oral	LD50 Rat: 1700 mg/kg
Bounded Carbon Black	oral	LD50 Rat: >15400 mg/kg
	dermal	LD50 Rabbit: >3000 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.
1,4-Diazabicyclooctane	Causes skin irritation.

Serious eye damage/irritation

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

Product data:

No data available.

Substance data:

Name	Result
Piperazine	Causes serious eye damage.
1,4-Diazabicyclooctane	Causes serious eye damage.

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.
	May cause an allergic skin reaction.

Carcinogenicity

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

Product data: No data available.

Substance data:

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Name	Species	Result
Talc		Talc containing asbestos is carcinogenic to humans.
Bounded Carbon Black	Not applicable.	The carcinogenic classification only applies to airborne, unbound particles of respirable size.

International Agency for Research on Cancer (IARC):

Name	Classification
Talc	Group 3
Bounded Carbon Black	Group 2B

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:

Oral, dermal, inhalation.

Symptoms related to the physical, chemical and toxicological characteristics:

Refer to Section 4 of this SDS.

Other information:

No data available.

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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
1,4-Diazabicyclooctane	LC50 Pseudokirchneriella subcapitata: 110 mg/L (72 hours)
	EC50 Daphnia magna: 100 mg/L (48 hours)
	LC50 Rainbow Trout: 464 mg/L (96 hours)

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
Talc	Biodegradation is not applicable to inorganic substances.
Piperazine	Readily biodegradable in water.
1,4-Diazabicyclooctane	Not readily biodegradable.
Bounded Carbon Black	The substance will not be biodegraded.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Talc	No potential for bioaccumulation.
1,4-Diazabicyclooctane	Log Kow: -0.490
1,4-Diazabicyclooctane	BCF (aquatic species): 13
Bounded Carbon Black	Bioaccumulation is not expected to occur.

Mobility in soil

Product data: No data available.

Substance data:

Name	Result
Piperazine	Moderately Mobile (Koc: 507)
1,4-Diazabicyclooctane	Log Koc: 1.95

Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment:

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Talc	The substance is inorganic, and as such the criteria for PBT are not applicable.
Bounded Carbon Black	The substance is not PBT.

vPvB assessment:

Talc	The substance is inorganic, and as such the criteria for vPvB are not applicable.
Bounded Carbon Black	The substance is not vPvB.

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

Contaminated packages:

Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14: Transport information

Australian Dangerous Goods (ADG)

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

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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

Australia regulations

Australian Inventory of Chemical Substances (AICS): All ingredients are listed or exempt.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):

Ingredient Name	CAS	Schedules
Piperazine	110-85-0	2, 5

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This SDS was authored in accordance with the Australian Work Health and Safety Regulations and supplemented by the Australian Code of Practice on the Preparation of Safety Data Sheets for Hazardous Chemicals. 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.

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Revision Notes:

Revision Date	Notes
2020-06-02	Composition change; classification change; occupational exposure limits present in current SDS; transportation classification change.

Additional information:

Version 2

End of Safety Data Sheet