



SAFETY DATA SHEET

GB/T 16483-2008, GB/T 17519-2013

Version 1
Product name PU 50

Issue date 07-Mar-2022
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SECTION 1: Chemical product and company identification

Product name

English chemical name Polyurethane adhesive sealant PU 50
Product Code 5105 0003

Company identification

· **Manufacturer/Supplier:**

Wolfchester Australia
4/122 Beresford Road
Lilydale, VIC 3140
www.wolfchester.com.au

· **Informing department:** sales@wolfchester.com.au

· **Emergency telephone number:**

13 11 26

Recommended use of the chemical and restrictions on use

Recommended use Jointing and Sealing for industrial manufacturing
Uses advised against No information available

SECTION 2: Hazards identification

Emergency overview

Black colloid with a slight odor. Causes mild skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

GHS classification

Skin corrosion/irritation Category 3
Respiratory sensitization Category 1

Label elements

Symbols/Pictograms



Signal word

Danger

Hazard statements

Causes mild skin irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

Prevention

Avoid breathing dust/fume/gas/mist/vapours/spray.

In case of inadequate ventilation, wear respiratory protection.

Response

If skin irritation occurs: Get medical advice/attention.

IF INHALED: remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician.

Storage

None.

Disposal

Dispose of contents/container to an approved waste disposal plant.

Physical hazards

No information available.

Health hazards

Causes mild skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Environmental hazards

No information available.

Other hazards

No information available.

SECTION 3: Composition/information on ingredients**Description Mixture**

Chemical name	CAS No	Weight-%
PU Prepolymer	68092-58-0	30.0-40.0
Petroleum distillates, hydrotreated light	64742-47-8	2.0-2.5
Methylene bisphenyl isocyanate (MDI)	101-68-8	0.9

SECTION 4: First aid measures**Description of first aid measures**

Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Wash with soap and water. Consult a physician if necessary.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Causes mild skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Self-protection of the first aider

Use personal protective equipment as required.

Note to physicians

Treat symptomatically.

SECTION 5: Firefighting measures**Extinguishing media**

Suitable extinguishing media Dry chemical, CO₂, water spray or alcohol-resistant foam.
Unsuitable extinguishing media High volume water jet.

Special hazard

Burning can lead to release of irritating and toxic gases and vapors.

Protective equipment and precautions for firefighters

Evacuate personnel to safe areas. Move containers from fire area if you can do it without risk. Cool drums with water spray. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Stay upwind. Ensure adequate ventilation, especially in confined areas.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray.

Environmental precautions

Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Prevention of secondary hazards

Prevent further leakage or spillage if safe to do so. .

SECTION 7: Handling and storage

Handling

Handle in accordance with good industrial hygiene and safety practice. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation, especially in confined areas. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Keep away from heat, sparks, flame and other sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protection recommended in Section 8.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs. Store in accordance with local regulations.

SECTION 8: Exposure controls/personal protection

Exposure limits

Chemical name	China	Japan	Korea	Australia	Taiwan
Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	TWA: 0.05 mg/m ³ STEL: 0.1 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.005 ppm TWA: 0.055 mg/m ³	0.02 mg/m ³ 0.07 mg/m ³ STEL	-

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Germany	Ontario TWA
Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	TWA: 0.005 ppm	(vacated) Ceiling: 0.02 ppm regulated under Methylene bisphenyl isocyanate (vacated) Ceiling: 0.2 mg/m ³ regulated under Methylene bisphenyl isocyanate Ceiling: 0.02 ppm Ceiling: 0.2 mg/m ³	IDLH: 75 mg/m ³ Ceiling: 0.020 ppm 10 min Ceiling: 0.2 mg/m ³ 10 min TWA: 0.005 ppm TWA: 0.05 mg/m ³	-	TWA: 0.005 ppm CEV: 0.02 ppm

Chemical name	Austria	Belgium	European Union	Denmark	Latvia
Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	STEL 0.01 ppm STEL 0.1 mg/m ³ TWA: 0.005 ppm TWA: 0.05 mg/m ³	-	-	TWA: 0.005 ppm TWA: 0.05 mg/m ³	

Chemical name	France	Finland	Italy	Poland	Spain
Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	TWA: 0.01 ppm TWA: 0.1 mg/m ³ STEL: 0.02 ppm STEL: 0.2 mg/m ³	STEL: 0.035 mg/m ³	-	ceiling: 0.2 mg/m ³ STEL: 0.09 mg/m ³ TWA: 0.03 mg/m ³	TWA: 0.005 ppm TWA: 0.052 mg/m ³

Chemical name	Norway	Portugal	Switzerland	Netherlands	United Kingdom
Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	TWA: 0.005 ppm TWA: 0.05 mg/m ³ STEL: 0.005 ppm STEL: 0.05 mg/m ³ STEL: 0.01 ppm	TWA: 0.005 ppm	Skin STEL: 0.02 mg/m ³ TWA: 0.02 mg/m ³	-	TWA: 0.02 mg/m ³

Engineering controls

Showers. Eyewash stations. Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection	Ensure adequate ventilation, especially in confined areas.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing.
Hand protection	Wear protective gloves.

SECTION 9: Physical and chemical properties

Appearance	Paste like silica gel / colloid
Color	Black
Odor	Slight odor
Odor threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Boiling point / boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Explosive limits	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Density	Not determined
Relative density	Not determined
Water solubility	Not determined
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not an explosive
Oxidizing properties	Not determined

SECTION 10: Stability and reactivity

Stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

No information available.

Hazardous decomposition products

None under normal use conditions

SECTION 11: Toxicological information**Acute toxicity**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated light (CAS #: 64742-47-8)	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	31600 mg/kg (Rat) 9200 mg/kg (Rat)	10000 mg/kg bw (Rabbit)	369 mg/m ³ (Rat) 4 h 367.95 mg/m ³ air (Rat) 4 h

Skin corrosion/irritation

Causes mild skin irritation.

Serious eye damage/eye irritation

Although the product does not have a classification of eye irritation, but try to avoid contact with the eyes. It may cause eye irritation.

Sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Persons already sensitized to diisocyanates may develop allergic reactions when using this product.

Germ cell mutagenicity

No information available.

Carcinogenicity

Chemical name	IARC
Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	Group 3

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12: Ecological information**Ecotoxicity**

Chemical name	Algae/Aquatic plants EC50	Fish LC50	Crustacea EC50
Petroleum distillates, hydrotreated light (CAS #: 64742-47-8)	-	45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static	4720: 96 h Den-dronereides heteropoda mg/L LC50
Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	> 1640 mg/L : 3 d Desmodemus subspicatus	>= 500 mg/L :24 h Danio rerio	>= 500 mg/L : 24 h Limnea Stagnalis

Persistence and degradability

No information available.

Bioaccumulative potential

Chemical name	Bioconcentration factor (BCF)
Petroleum distillates, hydrotreated light (CAS #: 64742-47-8)	159
Xylenes (o-, m-, p- isomers) (CAS #: 1330-20-7)	15

Mobility in soil

No information available.

Other adverse effects

No information available.

SECTION 13: Disposal considerations

Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

UN number Not regulated

UN proper shipping name Not regulated

Hazard class Not regulated

Packing group Not regulated

Environmental hazards Not applicable

Special precautions No information available

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

SECTION 15: Regulatory information

China

Component	IECSC	List of Dangerous Goods	China - List of Dangerous Chemicals
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PU Prepolymer 68092-58-0 (30.0-40.0)	X	-	-
Petroleum distillates, hydrotreated light 64742-47-8 (2.0-2.5)	X	-	-
Methylene bisphenyl isocyanate (MDI) 101-68-8 (0.9)	X	-	Present

International inventories

Component	AICS	DSL/NDSL	EINECS/ELINCS	ENCS	KECL	PICCS	TSCA
PU Prepolymer 68092-58-0 (30.0-40.0)	X	X	-	X	X	-	X
Petroleum distillates, hydrotreated light 64742-47-8 (2.0-2.5)	X	X	X	X	X	X	X
Methylene bisphenyl isocyanate (MDI) 101-68-8 (0.9)	X	X	X	X	X	X	X

"X" Listed

"-" Not Listed

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (Time Weighted Average)

STEL - STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

TSCA - Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

EINECS/ELINCS - European INventory of Existing Commercial chemical Substances/European List of Notified Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

KECL - Korea Existing Chemicals List

NZIoC - New Zealand Inventory of Chemicals

PICCS - The Philippine Inventory of Chemicals and Chemical Substances

AICS - The Australian Inventory of Chemical Substances

Key literature references and sources for data

ECHA: <http://echa.europa.eu/>

IFA GESTIS: [http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng](http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng)

HSDB: <http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

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