

SAFETY DATA SHEET INFORMATION
For further information: Please refer to the Safety Data Sheet following

Issue Date: November 21

PRODUCT: Polyurethane Coating Part B
Other Names: Acrylic Polyol Hardener

Uses: Protective Coatings
Signal Word: Warning

UN No.: 1263
Dangerous Goods Class: 3
Subsidiary Risk: None
Packing Group: III
Hazchem Code: •3Y

Hazardous Nature:	This product is classified as hazardous under the GHS criteria.
Hazard Statement:	Flammable liquid and vapour
GHS Classification:	Flammable Liquids: 3; Aspiration Toxicant: 1; Acute Toxicity- Oral: 2; Acute Toxicity - Inhalation: 2; Acute Toxicity - Dermal: 3; Chronic Aquatic Toxicity: 3

Physical Characteristics (Typical):

Appearance:	Clear, mobile liquid
Boiling Point/Range (°C):	> 150
Flash Point (°C):	28
Specific Gravity/Density (g/ml @ 15 °C):	0.98
pH:	pH: neutral
Chemical Stability:	Stable at room temperature and pressure
Reactivity:	Strong oxidising agents, excessive heat, strong acids and bases

Product Ingredients

<u>Ingredient</u>	<u>CAS Number</u>	<u>EINECS Number</u>	<u>Proportion</u>
Polyisocyanate	various	various	> 50
Xylene	1330-20-7	215-535-7	> 30
PGMA	108-65-6	203-603-9	< 25
n-Butyl Acetate	123-86-4	204-658-1	< 20

For further ingredient information, please refer to the full SDS

GHS Pictograms



DEFINITIONS

Dangerous Goods	Products that are regulated for transport under the UN International guidelines are classified as Dangerous Goods. Products can be classified by their physical characteristics and may have only one Dangerous Goods designation, although may have a subsidiary risk. These products may be Dangerous Goods for transport by Air and Sea but may not be classed as Dangerous Goods by Road and Rail in Australia. Refer to the Australian Code for Transport of Dangerous Goods by Road and Rail (ADG) for more information.
Hazardous Substances	Hazardous Substances are those products that are intrinsically hazardous by virtue of their chemical nature, rather than as a condition of their misuse. These hazards include mutagens, teratogens, carcinogens, and products that are harmful or irritant in nature. These products may or may not carry a Dangerous Goods classification. Hazardous Chemicals can attract a number of classifications, which are identified by the pictograms (if any) indicated on the SDS or label.

1. IDENTIFICATION

Product Name:	Polyurethane Coating Part B
Other Names:	Acrylic Polyol Hardener
Chemical Family:	Solvent-based Hardener
Molecular Formula:	Not available
Recommended Use:	Protective Coatings
Supplier:	Contreat
ABN:	80 477 225 325
Address:	1/22 Lawrence Dr, Nerang QLD 4211
Telephone:	1300 044 625
Emergency Phone:	+61 7 3209 8933 (After Hours)
All Other Enquiries:	1300 044 625
Website:	www.contreat.com.au

2. HAZARDS IDENTIFICATION

Hazardous Nature

This product is classified as hazardous under the GHS criteria.

GHS Classification

Flammable Liquids: 3; Aspiration Toxicant: 1; Acute Toxicity - Oral: 2; Acute Toxicity - Inhalation: 2; Acute Toxicity - Dermal: 3; Chronic Aquatic Toxicity: 3

GHS Pictograms



Hazard Statement

Flammable liquid and vapour

Hazard Statements

H226: Flammable liquid and vapour

H312 + 332: Harmful in contact with skin or inhaled

H315+320+335: Causes skin, eye, and respiratory irritation

H413: May cause long lasting harmful effects to aquatic life

Precautionary Statements

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P262: Do not get in eyes, on skin, or on clothing.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Dangerous Goods Classification: 3

Signal Word: Warning

3. COMPOSITION: INFORMATION ON INGREDIENTS

Chemical Ingredient	CAS Number	EINECS Number	Proportion (%v/v)
Polyisocyanate	various	various	> 50
Xylene	1330-20-7	215-535-7	> 30
PGMA	108-65-6	203-603-9	< 25
n-Butyl Acetate	123-86-4	204-658-1	< 20

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

Ingestion

If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

Eye Contact

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

Skin Contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Inhalation

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Seek immediate medical attention.

First Aid Facilities

Provide eye baths and safety showers.

Medical Attention

Treat according to symptoms.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress providing fire fighters with this Material Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable Extinguishing Media

Alcohol resistant foam, or if unavailable, dry chemical or foam

Hazards from Combustion Products

This product is combustible and likely to fuel a fire in progress.

Precautions for fire fighters and special protective equipment

Full protective clothing and self-contained breathing apparatus

Hazchem Code

•3Y

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours or dusts from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment

Major Land Spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard, where present.

- Prevent product from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled product using the resources in the spill kit.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”

Major Water Spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard, where present.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”.

7. HANDLING AND STORAGE

Precautions for Safe Handling

This product is flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Use grounding leads to avoid discharge (electrical spark).

Conditions for Safe Storage

Store in a cool, dry place away from direct sunlight. Do not pressurise, cut, heat or weld containers - residual vapours are flammable. This product is flammable and will fuel a fire in progress.

Incompatible Materials

Natural rubbers, light-weight plastics

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

National Exposure Standards

The time weighted average concentration (TWA) for this product is: None specified. Consider 5 g/m³, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week must not exceed this measurement. The short-term exposure limit (STEL) is: None specified. Consider 5 g/m³, which is the maximum allowable exposure concentration that must not be exceeded at any time. Some materials specify a Peak Limitation value (Peak): where None applies in this case. A peak limitation value supersedes TWA and STEL values and determines the concentration which must not be exceeded at any time. In addition to exposure concentrations, some materials can be classified as skin sensitisers effecting exposure through vapour or direct contact, indicated here as (Sen), where Sk applies in this case. Other products may have a characteristic of being easily absorbed through the skin (Sk), where none applies in this case.

Biological Limit Values (BLV): None specified

Engineering Controls: Ventilation

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof equipment.

Personal Protective Equipment

Respiratory Protection: Where concentrations in air may approach or exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type ‘A’ filter material is considered suitable for this product.

Eye Protection: Always use safety glasses or a face shield when handling this product.

Skin/Body Protection: Always wear long sleeves, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of Measurement	Typical Value
Appearance	None	Clear, mobile liquid
Boiling Point/Range	°C	> 150
Flash Point	°C	28
SG/Relative Density (@ 15°C)	g/ml; kgm ⁻³	0.98
Vapour Pressure @ 20 °C	kPa	Not determined
Vapour Density @ 20 °C	g/ml; kgm ⁻³	Not determined
Autoignition Temperature	°C	> 200
Explosive Limits in Air (LEL – UEL)	% vol/vol.	Not determined
Viscosity @ 20°C	cPs, mPas	150
Percent Volatiles	% vol/vol.	< 50
Acidity/alkalinity as pH	None	pH: neutral
Solubility in Water (at 25 °C)	g/l	Dispersible
Other solvents	-	Organic solvents

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

10. STABILITY AND REACTIVITY

Chemical stability

Stable at room temperature and pressure

Conditions to Avoid

Strong oxidising agents, excessive heat, strong acids and bases

Hazardous decomposition products

Carbon dioxide, carbon monoxide on decomposition or incomplete oxidation

Hazardous reactions

Strong oxidising agents, excessive heat, strong acids and bases

Hazardous polymerisation

Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

Swallowing will result in nausea, headache, central nervous system effects. Product can be aspirated to the lungs on vomiting resulting in chemical pneumonitis and long term lung damage. Small amounts of this product will cause irritation and a burning sensation in the throat, trachea, and oesophagus.

Eye Contact

Eye contact with this product will cause redness and swelling with a burning sensation and blurred vision. Prolonged eye damage is possible with this product.

Skin Contact

Contact with this product can result in mild irritations evidenced by swelling, redness, and dryness of the affected area.

Inhalation

Vapours at elevated temperatures will cause dizziness and drowsiness. Vapours at room temperature should be controlled through adequate (do not use in confined spaces) or mechanical ventilation.

Chronic Effects

Repeated or prolonged contact with this product will result in sensitisation if PPE precautions are not observed.

Other Health Effects

Persons with pre-existing skin or respiratory conditions will be sensitive to this product.

Toxicological Information

Oral LD₅₀: rat: No data; consider > 5 g/kg

Dermal LD₅₀: rabbit: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity:

Fish Toxicity LC ₅₀	This product is considered harmful to the aquatic environment
Daphnia Magna EC ₅₀	This product is considered harmful to insect life.
Blue-green algae	This product is considered harmful to aquatic plant life.
Green algae	This product is considered harmful to aquatic plant life.

Persistence/Biodegradability: Elements of this product are expected to persist.

Mobility: This is likely to be mobile on release to grasslands or soils, but will separate in wastewater treatment.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain product residue that may be harmful. Ensure that empty packaging is managed in accordance with Dangerous Goods regulations.

Special Precautions

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product should be treated and disposed through chemical waste treatment, or considered for use in recycling.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	1263	UN No.	1263	UN No.	1263
Proper Shipping Name	Paint & Paint related materials	Proper Shipping Name	Paint & Paint related materials	Proper Shipping Name	Paint & Paint related materials
DG Class	3	DG Class	3	DG Class	3
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Packing Group	III	Packing Group	III	Packing Group	III
Hazchem Code	•3Y	Hazchem Code	•3Y	Hazchem Code	•3Y

Dangerous Goods Segregation

This product is regulated as Class 3 Dangerous Goods, packing group III.

15. REGULATORY INFORMATION

Country/Region: Australia

Inventory: AICS (AICIS)

Status: Listed, ingredients listed

16. OTHER INFORMATION

Reasons for Issue: New manufacturer information; changes and updates in multiple sections.

Abbreviations:

AICS: Australian Inventory of Chemical Substances

ATE: Acute Toxicity Estimate

CAS Number: Chemical Abstracts Number

GHS: Globally Harmonised System

IARC: International Agency for Research on Cancer

IUCLID: International Uniform Chemical Information Database

PPE: Personal Protective Equipment

EC: European Chemical identification number

EINECS: European Inventory of Existing Chemical Substances

LoW: List of Wastes

LC₅₀: Lethal Concentration to 50% of sample population

LD₅₀: Lethal Dose to 50% of sample population

N/R: Non-regulated

N/A: Not applicable

PEC: Predicted Effect Concentration

PNEC: Predicted Non-effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

UN: United Nations

References:

- Supplier Safety Data Sheets
- <http://hsis.safework.gov.au/SearchHS.aspx> (November 21)
- Animal toxicology data: <http://chem.sis.nlm.nih.gov/chemidplus> (November 21)
- Ecotoxicology data: <https://cfpub.epa.gov/ecotox>
- General sources of chemical information available to Contreat

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult relevant legislation and regulations governing the use and storage of this type of product, and it is recommended that the user conduct their own risk assessment prior to use. For further information, please contact Contreat.