



Manufacturers of Industrial & Decorative Coatings

United Paints Limited
P.O. Box 21 064
29 Empire Road
Bridgend
Christchurch
Telephone : (03) 323 8743
Facsimile: (03) 323 7261

SAFETY DATA SHEET UNITHANE HARDNER

1.0 Chemical Product and Company Identification

Trade Name: UNITHANE HARDNER
Chemical Name: Aliphatic Isocyanate
Manufacturers Name: United Paints
Address: 29 Empire Rd, Belfast, Christchurch
Telephone: (03) 323 8743
Facsimile: (03) 323 7261
Date of Issue: 17th May 2023

Emergency Contact Numbers

National Poison & Hazardous Chemicals Information Centre
United Paints Limited – Director (Mr M.Davies)

0800 POISON
(03) 359 3528 Home
021 617 979 Mobile

2.0 Hazards Identification

HSNO APPROVAL CODE : HSR002669

HSNO CLASSIFICATIONS : 3.1C, 6.1E, 6.3A, 6.4A, 6.5B, 6.7B, 6.8B,
6.9B, 9.1B, 9.2A

WORDING : DANGER

Harmful, Flammable Liquid, Dangerous Goods



3.0 Composition / Information on Ingredients

Ingredient	% by Weight	TLV (TWA)
Aliphatic Isocyanate	35 - 40%	280 mg/m ³
Methyl Proxitol Acetate	40 - 45%	50ppm

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Auckland
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Palmerston North
021 682 151

4.0 First Aid Measures

- 4.1 Inhalation** Bring patient to fresh open air. If breathing difficult give oxygen.
- 4.2 Skin Contact** Wash with soap and water. Remove and launder contaminated clothing before reuse.
- 4.3 Eye Contact** Flush with water lifting lids occasionally. Seek medical attention.
- 4.4 Ingestion** Do not induce vomiting. Keep patient warm and quiet. Seek medical attention immediately. Rinse mouth with water.
- 4.5 First Aid Facilities** Eyewash and normal washroom facilities and consumables.
- 4.6 Notes to Doctor** Treat symptomatically. Aspiration is the main danger. Enforce bed rest and observe carefully. Prophylactic antibiotics useful. Observe for chemical pneumonitis. Gastro-intestinal absorption is significant with hydrocarbon solvents. For large ingestions cuffed endotracheal tube is recommended.

5.0 Fire Fighting Measures

- 5.1 Flashpoint** 45°C
- 5.2 Flammability Limit** 1.3 – 7 %
- 5.3 Extinguishing Media**
Foam, carbon dioxide, dry chemical.
- 5.4 Hazardous Composition Products**
May form toxic materials such as Carbon Monoxide and Carbon Dioxide.
- 5.5 Special Firefighting Procedures**
Call Fire Service and tell them of location and nature of hazard.
Water or Foam may cause frothing that can be violent, especially if sprayed into containers of hot burning liquid. Self contained breathing apparatus with full face piece should be used.
Closed containers can be kept cool by water spray.
Make sure of adequate supplies of extinguishing material available.
- 5.6 Unusual fire and Explosion Hazards**
Vapours are heavier than air and may travel along ground and move by ventilation and ignite at a point far from the source. Sumps and drains should be checked for signs of accumulation.
- 5.7 Firefighting Personal Protective Equipment**

Full protective clothing and self-contained breathing apparatus.
Water rinse shower available.

6.0 Accidental Release Measures

- 6.1 Minor Spills** Eliminate all sources of Ignition. Stop leak at source. Dyke area of spillage. Absorb with sand or other absorbent inert material.
- 6.2 Major Spills** Clear are from all public and personnel. Call fire service and advice on the nature of hazard. Ensure spill is contained however if spill enters waterways directly or through drains advise local environment protection authority.
- 6.2 Disposal** Destroy by controlled incineration by approved waste disposal group or use an authorised disposal area.

7.0 Handling and Storage

- 7.1 Handling** Use in well ventilated area away from any source of ignition. Wear safety glasses, nitrile gloves, overalls, and approved cartridge respirator when spraying.
- 7.2 Storage** Store in a cool, authorised room away from any source of accidental ignition, or any oxidising agents.

8.0 Exposure Controls / Personal Protection

8.1 Exposure Controls

Contains > 35 % Methyl Proxitol Acetate. Make sure level maintained below TLV of 50 ppm or provide personal protective equipment to suit.

8.2 Personal Protective Equipment

- Vapour Respirator
- Splash Goggles
- Face Shield
- Gloves (Nitrile)
- Synthetic Apron
- Vapour Respirator
- Dust Respirator

9.0 Physical and Chemical Properties

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9.1 Appearance	Liquid
9.2 Odour	Sweet Ester
9.3 Boiling Point	140°- 150°C
9.4 Flash Point	45° C
9.5 Solubility in Water	Partial
9.6 Specific Gravity	1.02
9.7 ph Value	Not applicable
9.8 Vapour Pressure	Not Available
9.9 Vapour Density	1.0
9.10 Evaporation Rate	0.1 (BA=1)
9.11 Volatile Component	55 - 60 %
9.12 Flammability	Flammable Liquid
9.13 Autoignition Temp	Not Established
9.14 Flammability Limits	Lower 1.3 Upper 7.0

Clear flammable liquid with a mild solvent odour, which will partially mix with water but Will likely gel and remain stable.

10.0 Stability and Reactivity

10.1 Chemical Stability	Stable under normal conditions
10.2 Conditions to Avoid	Heat, Direct Sunlight, open flames or other ignition sources
10.3 Materials to Avoid	Strong oxidising agents and water
10.4 Hazardous Decomp Products	Carbon monoxide, Carbon dioxide, free isocyanates
10.5 Hazardous Reactions	May react with incompatible materials
10.6 Hazardous Polymerization	will not occur

11.0 Toxicological Information

11.1 Acute Toxicity	Inhalation may cause immediate breathing difficulty.
11.2 Health Effects Swallowed	Harmful. Ingestion of this material may irritate the gastric tract and cause nausea and vomiting.
Eye Contact	May cause eye irritation, stinging, redness and blurred vision.
Skin Contact	May cause itching, redness and irritation
Chronic Effects	Prolonged contact with skin may cause dermatitis, and will likely cause sensitization for both skin and respiratory tract.

12.0 Ecological Information

12.1 Ecotoxicity	No ecological data is available for this product.
12.2 Persistence / Degradability	Not readily biodegradable.
12.3 Mobility Air Water	Slow loss by evaporation Product spreads and partially mixes with water.
12.4 Enviro Protection	Avoid contaminating waterways, soil, drains and sewers.

13.0 Disposal Considerations

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13.1 Liquid

Dispose of waste through an approved facility.

13.2 Containers

Dispose of containers through metal recycler once empty containers have dried and hardened.

14.0 Transport Regulations

Labelling Required FLAMMABLE LIQUID
Red Diamond 3

UNDG

U N Number 1866
Proper Shipping Name Isocyanate Prepolymer
D G Class 3
Hazchem Code 3 Y E
Packing Group III

IMDG (Maritime)

IMDG Class 3
UN Number 1866
EMS Number F-E, S-E
IMDG Sub risk none
Packing Group III
Special Provisions 163 223 944 955
Marine Pollutant Not Determined

This material is classified as a class 3 – Flammable Liquid according to NZS 5433 : 1999 Transport of Dangerous Goods on Land.
This material must not be loaded in the same freight container or the same vehicle with:

- Class 1 Explosives
- Class 2.1 Flammable Gases
- Class 2.3 Toxic Gases
- Class 4.2 Spontaneously Combustible Substances
- Class 5.1 Oxidising substances
- Class 5.2 Organic Peroxides
- Class 7 Radioactive materials unless specifically exempted

Must not be loaded in the same freight container, but can be in the same vehicle if separated horizontally by a distance of 3 meters:

Class 4.3 Dangerous when wet substances.

Goods of packing group II or III may be loaded in the freight container or the same Vehicle if transported in segregation devices with:

Class 4.2	Spontaneously Combustible Substances
Class 4.3	Dangerous when wet substances
Class 5.1	Oxidising substances
Class 5.2	Organic Peroxides

15.0 Regulatory Information

Labelling	Class 3, Flammable Liquid
Poisons Schedule	S 4
Hazard Category	Harmful

16.0 Other Information

Revision Date	17 th May 2028
NZ Emergency Services	Telephone 111
NZ Poison Information	Telephone 0800 POISON (0800 764 766)

The above information concerns only the above mentioned product and is not valid with any other product(s). The information is provided to the best of our knowledge, correctly and completely, in good faith but without warranty. It remains the user's responsibility to ensure the information is appropriate for their application of the product.