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
UNILUX HARDNER

1.0 Chemical Product and Company Identification

Trade Name: **UNILUX 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	0800 POISON
United Paints Limited – Director (Mr M.Davies)	(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%		
Methyl Proxitol Acetate	40 - 45%	280 mg/m^3	50ppm

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. Gasto-intestinal absorption is significant with hydrocarbon solvents .For large ingestions cuffed endotracheal tube is recommended.

5.0 Fire Fighting Measures

5.1 Flashpoint 45^0C

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 Respirato

9.0 Physical and Chemical Properties

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	**Auto ignition 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**	Slow loss by evaporation
	Water	Product spreads and partially mixes with water.
12.4	**Enviro Protection**	Avoid contaminating waterways, soil, drains and sewers.

13.0 Disposal Considerations

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 Subrisk	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 17th 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.