



Material Safety Data Sheet

1. Identification of the substance/mixture and supplier

Product Name: **Watermarque 2K Topcoat Gloss Hardener**

Recommended use: Hardener component for Watermarque 2K Topcoat Gloss

Supplier: Uroxsys Ltd

Street Address: 2 Stondon Drive, East Tamaki, Auckland

Telephone Number: +64 9 2740808

Facsimile: +64 9 2740500

Emergency Telephone: After hours phone 0800 867666 (or 09 3034580), quote reference: Uroxsys Helpline

ERMA Approval: HSR002657

2. Hazards identification

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001
Not Classified as Dangerous Goods by NZS 5433:1999 Transport of Dangerous Goods on Land.

Subclass 3.1 Category D – Flammable liquid (low hazard)

Subclass 6.3 Category A - Substances that are irritating to the skin.

Subclass 6.4 Category A - Substances that are irritating to the eye

Subclass 6.5 Category A - Substances that are respiratory sensitisers

Subclass 6.5 Category B – Substances that are contact sensitisers

Risk phrases: R43 May cause sensitization by skin contact

Safety Phrases S24/25 Avoid contact with skin and eyes.

S36/37/39 Wear suitable protective clothing, glove and eye/face protection.

S51 Use only in well ventilated areas.

3. Composition/information on hazardous ingredients

aliphatic polyisocyanate		>60%	R43
hexamethylene-1,6-diisocyanate	822-06-0	<0.15%	R23,R36/37/38,R42/43
Dipropylene glycol dimethyl ether	111109-77-4	15-30%	

4. First-aid measures

If poisoning occurs, contact a doctor or Poisons Information Centre Phone 0800 764 766.

Ingestion: If swallowed, do NOT induce vomiting. Rinse mouth with water. Seek medical assistance.

Inhalation: Remove patient to fresh air. If vapours or mists have been inhaled and irritation developed seek medical advice.

Skin Contact: If skin or hair contact occurs, immediately remove contaminated clothing and clean skin and hair with plenty of soap and water. If irritation occurs seek medical advice.

Eye Contact: If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

Notes to physician:

Treat symptomatically.

5. Fire-fighting measures

Hazards from combustion: Combustible liquid. On burning may emit toxic fumes including oxides of carbon and oxides of nitrogen

Fire-fighting advice: Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Keep containers cool with water spray.

Suitable Extinguishing Media: Foam, dry agent (carbon dioxide, dry chemical powder).

Hazchem Code: Not applicable

6. Accidental release measures

Emergency procedures:

If contamination of sewers or waterways has occurred advise local emergency services.

Methods for containment & clean up:

Clear area of all unprotected personnel. Clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect in properly labeled containers.

7. Handling and storage

Handling advice:

Avoid skin and eye contact and breathing in vapour. Keep out of reach of children.

Storage advice:

Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

8. Exposure controls/personal protection

Occupational Exposure Limits:

No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH). However, Workplace Exposure Standard(s) for constituent(s):

Isocyanates, all (as-NCO) (sen):TWA 0.02 mg/m³; STEL 0.07 mg/m³

'Sen' Notice – sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to exposure to minute levels of that substance.

Engineering Control Measures:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Keep containers closed when not in use.

Personal Protective Equipment:

Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If spraying or inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. Physical and chemical properties

Physical state: liquid

Colour: white

Solubility:	Dispersible in water
Specific Gravity:	1.0
Flash Point (°C):	65°C
Flammability Limits (%):	not available
Boiling Point/Range (°C):	175

10. Stability and reactivity

Stability: Stable under normal conditions.

Conditions to avoid: Avoid contact with foodstuffs. Avoid exposure to heat, sources of ignition and open flame. Reacts with moisture

Incompatible materials: Incompatible with oxidising agents

11. Toxicological information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: May cause irritation of the mouth, throat and gastrointestinal tract.

Eye contact: May cause irritation.

Skin contact: Contact with skin may result in irritation. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Inhalation: Breathing of mists, vapours or fumes may irritate the nose, throat and lungs. May result in headaches, dizziness, drowsiness and possible nausea.

Long Term Effects:
Hypersensitive persons may suffer from these effects even at low isocyanate concentrations.

Toxicological Data:
No LD50 data available for the product. The toxicity of the product may be attributed to the solvents it contains.
Additive effects may occur with mixtures of solvents. Similar effects can occur where the consumption of alcohol is also involved. However, for constituents:
isocyanate: oral LD50 (rat): >5000 mg/kg, inhalation LC50 (rat) 390-453 mg/m³, aerosol
Dipropylene glycol dimethyl ether: oral LD50 (rat): 3300mg/kg, LD50 dermal (rat) > 2000mg/kg

12. Ecotoxicological information

Avoid contaminating waters, wastewater or soil. Notify authorities if water supply is contaminated.
Isocyanate: Acute fish toxicity LC0 (96hr) > 100 mg/ml Zebra barbell

13. Disposal considerations

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Normally suitable for incineration by an approved agent.

Empty containers:
Do not contaminate storm water with product or product washing. Do not pour product down the drain. React residue with appropriate amount of resin, allow to cure and then dispose of via waste collection. Check with your local council first.

14. Transport information

Road and Rail Transport

Not Classified as Dangerous Goods by NZS 5433:1999 Transport of Dangerous Goods on Land.

Marine Transport

Not Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport

Not Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. Regulatory information

Classification: This material is hazardous according to the criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

ERMA Approval: HSR002657

Group Standard: Surface Coatings and Colourants (Combustible) Group Standard

Subclass 3.1 Category D – Flammable liquid (low hazard)

Subclass 6.3 Category A - Substances that are irritating to the skin.

Subclass 6.4 Category A - Substances that are irritating to the eye

Subclass 6.5 Category A - Substances that are respiratory sensitisers

Subclass 6.5 Category B – Substances that are contact sensitisers

16. Other information

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Uroxsys Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact Uroxsys Limited at the contact details on page 1.

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