

Material Safety Data Sheet

1. Identification of the substance/mixture and supplier

Product Name: **Through-Cure Catalyst**

Recommended use: Adjusting the viscosity and cure rate of Duracoat moisture curing polyurethanes at low temperatures.

Supplier: Uroxsys Ltd
Street Address: 2 Stonedon 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: HSR002662

2. Hazards identification

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001
Classified as Dangerous Goods by NZS 5433:1999 Transport of Dangerous Goods on Land

Subclass 3.1 Category C (medium hazard) - Flammable liquid
Subclass 6.4 Category A - Substances that are irritating to the eye

Risk phrases: R10 Flammable

Safety Phrases S16 Keep away from sources of ignition - No smoking
S24/25 Avoid contact with skin and eyes
S28 After contact with skin, wash immediately with plenty of soap and water.
S29 Do not empty into drains
S38 In case of insufficient ventilation, wear suitable respiratory equipment.

3. Composition/information on hazardous ingredients

1-methoxy-2-propyl acetate	108-65-6	>60%	R10,R36
n-methylpyrrolidone	872-50-4	10-30%	R36/38

4. First-aid measures

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

Ingestion: Do not induce vomiting. Give water to drink providing patient is conscious. Obtain medical attention.

Inhalation: Remove to fresh air. If breathing has stopped, apply artificial respiration. Seek medical advice.

Skin Contact: If skin contact occurs, immediately remove contaminated clothing and wash skin thoroughly with soap and water. If irritation persists, obtain medical attention.

Eye Contact: If in eyes, hold eyes open, flood with water for at least 15 minutes. Obtain medical attention immediately.

Notes to physician: In case of ingestion or inhalation, keep victim under observation and treat symptomatically as indicated by the patient's condition.

5. Fire-fighting measures

Hazards from combustion: On burning may emit toxic fumes including carbon monoxide.

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. Flammable liquid. May form flammable vapour mixtures with air. Avoid all ignition sources. Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Keep containers cool with water spray.

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

Hazchem Code: 3[Y]

6. Accidental release measures

Emergency procedures:

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

Methods for containment & clean up:

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, 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 and seal in properly labeled containers or drums for disposal.

7. Handling and storage

Handling advice:

Avoid skin and eye contact and breathing in vapour. May form flammable vapour mixtures with air. All potential sources of ignition must be eliminated both in and near the work area. Do NOT smoke. Flameproof equipment is necessary in all areas where this chemical is being used. Nearby equipment must be earthed. Vapour may travel a considerable distance to a source of ignition and flash back.

Storage advice:

Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. 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

Workplace Exposure Limits:

n-methylpyrrolidone TLV:TWA 25 ppm, 103mg/m³, STEL 75 ppm, 309 mg/m³ (skin, 2001)
1-methoxy-2-propyl acetate: TWA 50 ppm, 275 mg/m³ (EU)

Engineering Control Measures:

Ensure ventilation is adequate. Keep containers closed when not in use.

Personal Protective Equipment:

Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If 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:	colourless
Solubility:	partly
Specific Gravity:	0.98
Flash Point (°C):	45°C
Flammability Limits (%):	Lower 1.5%, Upper 7%
Boiling Point/Range (°C):	140-150°C

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.
Incompatible materials:	Incompatible with oxidising agents
Hazardous decomposition products:	Combustion will generate oxides of carbon

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: Low toxicity.

Eye contact: Irritant. May cause excess redness and swelling of the conjunctiva.

Skin contact: May cause slight irritation.

Inhalation: Inhalation of the vapour may irritate the nose. In high concentrations may cause headache, nausea, dizziness, drowsiness and incoordination.

Long Term Effects:

Prolonged or repeated overexposure to vapour may result in damage to nasal tissues and the upper respiratory tract.

Toxicological Data:

No LD50 data available for the product. The toxicity of the product may be attributed to the solvents it contains. However, for constituent 1-methoxy-2-propyl acetate;
Oral LD50 (rat) 8532 mg/kg, Dermal LD50 (rabbit) > 5000 mg/kg
For n-methylpyrrolidone: Oral LD50 (rat) 4200 mg/kg, Dermal LD50 (rat) 8000 mg/kg.

12. Ecotoxicological information

Avoid contaminating waterways.

13. Disposal considerations

Refer to Waste Management Authority. Advise flammable nature. 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. Unwanted product should be brushed out on newspaper, allowed to dry and then disposed of via domestic waste collection. Empty containers should be left open in a well ventilated area to dry out. When dry, recycle the container via recycling programmes. Disposal of empty paint containers via domestic recycling programmes may differ between local authorities. Check with your local council first.

14. Transport information

Road and Rail Transport

Classified as Dangerous Goods by NZS 5433:1999 Transport of Dangerous Goods on Land

UN No: 1263

Class: 3 Flammable

Packing Group: III

Proper Shipping Name: PAINT RELATED MATERIAL (1-methoxy-2-propyl acetate & n-methyl pyrrolidone)

Hazchem Code: 3[Y]

Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No: 1263

Class: 3 Flammable

Packing Group: III

Proper Shipping Name: PAINT RELATED MATERIAL (1-methoxy-2-propyl acetate & n-methyl pyrrolidone)

Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 1263

Class: 3 Flammable

Packing Group: III

Proper Shipping Name: PAINT RELATED MATERIAL (1-methoxy-2-propyl acetate & n-methyl pyrrolidone)

15. Regulatory information

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

ERMA Approval: HSR002662

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

Subclass 3.1 Category C (medium hazard) - Flammable liquid

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

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.

While Uroxsys Ltd believes that the information contained herein is based on data considered accurate, no warranty or representation is expressed or implied for which Uroxsys Ltd assumes legal responsibility.