

Material Safety Data Sheet

1. Identification of the substance/mixture and supplier

Product Name: **Dvise**

Recommended use: Adhesive

Supplier: Uroxsys Ltd

Street Address: 17 Trugood 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: HSR002670

2. Hazards identification

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

Subclass 6.1 Category D - Substances which are acutely toxic

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

Subclass 6.4 Category A - Substances that are irritating to eye

Subclass 6.5 Category A - Substances that are respiratory sensitisers

Subclass 6.5 Category B - Substances that are contact sensitisers

Risk phrases: R36/37/38 Irritating to eyes, respiratory system and skin
R42/43 May cause sensitisation by inhalation and skin contact

Safety Phrases S24/25 Avoid contact with skin and eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/38 Wear suitable protective clothing, gloves and eye/face protection.

3. Composition/information on ingredients

Polymeric MDI	9016-87-9	30-60% R20,R36/37/38,R42/43
4,4-diphenylmethane diisocyanate	101-68-8	30-60% R20,R36/37/38,R42/43
MDI Mixed Isomers	26447-40-5	<1%

4. First-aid measures

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

Ingestion: Immediately rinse mouth with water. Do not induce vomiting. Seek medical assistance.

Inhalation: Remove victim from area of exposure. Remove contaminated clothing and loosen remaining clothing. If breathing is difficult seek immediate medical attention.

Skin Contact: Wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. Seek medical advice if necessary.

Eye Contact: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.

Notes to physician:

The manifestations of respiratory symptoms including pulmonary edema, resulting from acute exposure may be delayed. Supportive care. Treatment based on judgment by the doctor in response to reactions of the patient.

5. Fire-fighting measures

Specific Hazards: Will support combustion. Toxic fumes are released in fire situations.

Fire-fighting advice: On burning may emit toxic fumes including those of carbon monoxide, nitrogen oxide, isocyanate vapours and hydrogen cyanide. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Suitable Extinguishing Media:

Dry chemical powder, Carbon dioxide, chemical foam; in case of larger fires, water spray should be used.

6. Accidental release measures

Emergency procedures:

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

Methods for containment & clean up:

Evacuate spill area. Contain spill. Wear protective clothing and breathing apparatus during clean up. Absorb spill with sand or earth and shovel into open top containers, do not make pressure tight. Treat with neutralizing solution (90% water, 2-7% detergent, 3-8% concentrated ammonium hydroxide). About 10 parts neutralizing solution per part of isocyanate with mixing.

7. Handling and storage

Handling advice: Avoid skin and eye contact.

Storage advice: Store in a cool place and out of direct sunlight. Store away from alcohols, amines, moisture and sources of heat or ignition. Keep dry, reacts with water. Keep containers closed at all times, 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): TWA 0.02 mg/m³; STEL 0.07 mg/m³, sen, NZ

As published by the New Zealand Occupational Safety and Health Service (OSH)

'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.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering Control Measures:

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

Personal Protective Equipment:

Avoid skin and eye contact and inhalation of vapour or spray. Wear overalls, safety boots, full-face visor and general purpose gloves (PVC). 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:	Brown liquid
Solubility:	Insoluble in water.
Specific Gravity:	1.1
Flash Point (°C):	>100°C
Flammability Limits (%):	not applicable
Boiling Point/Range (°C):	180

10. Stability and reactivity

Stability:	Stable under normal condirions
Conditions to avoid:	Avoid contact with foodstuffs.
Incompatible materials:	Reacts with alcohols, acids, oxidizing agents and moisture..

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 vomiting, nausea and abdominal pain.
Eye contact:	May cause slight eye irritation.
Skin contact:	Prolonged or repeated exposure may cause skin irritation. May result in allergic skin reactions or respiratory sensitization.
Inhalation:	Vapours may cause irritation of the mucous membranes in the throat and lungs. May cause respiratory sensitization in susceptible individuals. MDI concentrations below the exposure standard may cause allergic respiratory reactions in individuals already sensitized. Symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Effects may be delayed.

Long Term Effects:

There are reports that chronic exposure to isocyanates by inhalation, may result in a permanent decrease in lung function.

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 MDI products:

Oral LD50 (rat): >5000 mg/kg, Dermal LD50 (rabbit): >5000 mg/kg

Inhalation LC50 (rat): 490 ppm/kg (respirable aerosol)

12. Ecotoxicological information

Avoid contaminating waterways, drains, sewers or ground. LC50>100 mg/l in most sensitive species.

13. Disposal considerations

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Should be incinerated in a hazardous waste incinerator in accordance with relevant regulations.

Empty containers should be exposed to air and left to cure. When cured, dispose of in rubbish as inert waste.

14. Transport information

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

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

ERMA Approval: HSR002670

Group Standard: Surface Coatings and Colourants (Subsidiary Hazard) Group Standard

Subclass 6.1 Category D - Substances which are acutely toxic

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

Subclass 6.4 Category A - Substances that are irritating to 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.

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.