

Material Safety Data Sheet

1. Identification of the substance/mixture and supplier

Product Name: **Reducer R122**

Recommended use: Polyurethane thinner

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: HSR002650

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 6.1 Category E - Substances which are acutely toxic.

Subclass 6.3 Category B - Substances that are mildly irritating to the skin

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

Subclass 9.1 Category B - Substances that are ecotoxic in the aquatic environment

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

Aromatic hydrocarbon solvent	64742-95-6	30-60% R65
Propylene glycol monomethyl ether acetate	108-65-6	30-60%R10, R36

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. Immediately rinse mouth with water and give water to drink. Seek immediate medical assistance.

Inhalation: Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Get to a hospital or doctor quickly.

Skin Contact: If skin or hair contact occurs, immediately remove contaminated clothing and wash skin 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

Specific Hazards: Flammable liquid. On burning will emit toxic fumes including those of oxides of carbon.

Fire-fighting advice: On burning will emit toxic fumes. If safe to do so, remove containers from the path of fire. Keep containers cool with water spray. 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: 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

Occupational Exposure Limits:

Aromatic hydrocarbon solvent: TWA 480 mg/m³ - Shell recommendation

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. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected.

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:	Insoluble in water.
Specific Gravity:	0.92
Flash Point (°C):	45°C
Flammability Limits (%):	1.5-7.0
Boiling Point/Range (°C):	143-149

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:	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:	Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is uncoordinated there is greater likelihood of the patient breathing in vomit and causing damage to the lungs.
Eye contact:	An eye irritant.
Skin contact:	Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.
Inhalation:	Material may be irritant to the mucous membranes of the respiratory tract (airways). Breathing in vapour can result in headaches, dizziness and possible nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Long Term Effects:

No information available for the product.

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 constituent Aromatic hydrocarbon solvent:

Oral LD50 (rat): >2000 mg/kg, Dermal LD50 (rabbit): >2000 mg/kg,

Inhalation LC50 (rat): 1320 ppm/6 Hrs/90 days

For Propylene glycol monomethyl ether acetate:

Oral LD50 (rat) 8532 mg/kg, Dermal LD50 (rabbit) > 5000 mg/kg

12. Ecotoxicological information

Avoid contaminating waterways. Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

For constituent Aromatic hydrocarbon solvent:

Acute toxicity Fish 1<LC/EC/IC50 <= 10 mg/l

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.

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-primary 3 Flammable Liquid

Packing Group: III

Proper Shipping Name: PAINT

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-primary: 3 Flammable Liquid

Packing Group: III

Proper Shipping Name: PAINT

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-primary: 3 Flammable Liquid

Packing Group: III

Proper Shipping Name: PAINT

15. Regulatory information

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

Subclass 3.1 Category C (medium hazard) - Flammable liquid

Subclass 6.1 Category E - Substances which are acutely toxic.

Subclass 6.3 Category B - Substances that are mildly irritating to the skin

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

Subclass 9.1 Category B - Substances that are ecotoxic in the aquatic environment

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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