

Material Safety Data Sheet

1. Identification of the substance/mixture and supplier

Product Name: **Polyurethane Spray Thinner**

Recommended use: Conditioning of previously coated floors prior to recoating

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 B (high hazard) - Flammable liquid
 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 the eye

Risk phrases: R11 Highly Flammable
 R36 Irritating to eyes
 R65 Harmful: May cause lung damage if swallowed

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

Toluene	108-88-3	30-60%	R11,R20
Methyl ethyl ketone	78-93-3	30-60%	R11,R66,R67,R36/37

4. First-aid measures

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

Ingestion: Do not induce vomiting. Keep warm and at rest. Obtain emergency medical attention.

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

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 urgently.

5. Fire-fighting measures

Specific Hazards: Highly 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]E

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:
Toluene TLV/TWA 50ppm, 188mg/m³, skin
Methyl ethyl ketone TLV/TWA 150ppm, 445 mg/m³, STEL 300ppm, 890 mg/m³

Engineering Control Measures:
Ensure ventilation is adequate. Use only in well ventilated areas. 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: 0.52 kg/m³
Specific Gravity: 0.84
Flash Point (°C): -4°C
Flammability Limits (%): Lower 1.2%, Upper 8%
Boiling Point/Range (°C): 72°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: 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: Will cause corrosion and damage of the gastrointestinal tract. Swallowing can result in nausea, vomiting and central nervous system depression. Aspiration into lungs may cause chemical pneumonitis which can be fatal.

Eye contact: Liquid or vapour are irritating to eyes.

Skin contact: Contact with skin may result in irritation. Will have degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Inhalation: Exposure to vapour may cause irritation of the nose, throat and respiratory tract and headache. Exposure to vapour at high concentrations may cause severe irritation of throat and respiratory tract.

Long Term Effects:
Not a skin sensitiser. Dermatitis may result from prolonged or repeated exposure.

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 toluene;
Dermal LD50 (rat): >2000 mg/kg, Acute oral LD50 (rat) >2000 mg/kg, Acute inhalation LC50 (rat) >5mg/l
For methyl ethyl ketone:
Oral LD50 (rat) 2723 mg/kg, Dermal LD50 (rabbit) 5000-13000 mg/kg, inhalation LC50 (rat) 23500 mg/m³/8hr

12. Ecotoxicological information

Prevent contamination of soil and water. Large volumes may penetrate soil and could contaminate ground water. Readily biodegradable and oxidizes rapidly by photochemical reactions in air. Toxic to aquatic organisms, but non toxic to organisms in sewage treatment plants.

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: 3, Packing Group: II

Proper Shipping Name: PAINT RELATED MATERIAL

Hazchem Code: 3[Y]E

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, Packing Group: II

Proper Shipping Name: PAINT RELATED MATERIAL

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, Packing Group: II

Proper Shipping Name: PAINT RELATED MATERIAL

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 B (high hazard) - Flammable liquid

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 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.

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