

# Safety Data Sheet



## 1. Identification of the substance/mixture and supplier

Product Name: Duracoat UV Tec  
Other Names:  
Recommended use: UV absorbent glass coating  
Supplier: Uroxsys Ltd  
Street Address: 2 Stonedon Drive, East Tamaki, Auckland  
Telephone Number: +64 9 2740808 (8.00am to 5.00pm, Monday to Friday)  
Facsimile: +64 9 2740500  
Emergency Telephone: After hours phone 0800 867666 (or 09 3034580), quote reference:  
Uroxsys Helpline  
National Poison Information Centre 0800 POISON (764766)  
Date of issue 22<sup>nd</sup> March 2019

## 2. Hazards identification

**DANGER**



3.1B, 6.1D (oral), 6.3A, 6.4A, 6.5A, 6.5B, 6.8B, 6.9B, 9.1C  
EPA Approval: HSR002662 Surface Coatings and Colourants (Flammable) Group Standard 2017

Classified as Dangerous Goods by NZS 5433 Transport of Dangerous Goods on Land.

### Hazard Statements:

H225 Highly flammable liquid and vapour.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H361 Suspected of damaging fertility or the unborn child.  
H372 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

### **Prevention Statements**

- P102 Keep out of reach of children
- P103 Read label before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing fumes/gas/mist/vapours/spray
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well ventilated area
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P281 Use personal protective equipment as required (*see section 8*)
- P285 In case of inadequate ventilation wear respiratory protection (*see section 8*)

### **Response Statements**

- P101 If medical advice is needed, have product container or label at hand.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/ attention.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P330 Rinse mouth.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before re-use.
- P370+P378 In case of fire: Use foam, dry powder, carbon dioxide.

### **Storage Statements**

- P403+P235 Store in a well-ventilated place. Keep cool.

### **Disposal Statements**

- P501 Do not let product enter the environment. Do not dispose of in waterways or sewers. Unwanted product should be brushed out on newspaper, allowed to cure and then disposed of via domestic waste collection. Empty containers should be left open in a well-ventilated area to cure. When cured, recycle the container via recycling programs. Disposal of empty paint containers via domestic recycling programs may differ between local authorities. Check with your local council first.

### 3. Composition/information on ingredients

Material	CAS No:	Content %
Toluene	108-88-3	30-50%
Xylene	1330-20-7	20-40%
Aliphatic polyisocyanate prepolymer		10-20%
1-methoxy-2-propyl acetate	108-65-6	<10%
Isophorone diisocyanate	1098-71-9	<2%
Hexamethylene-1,6-diisocyanate	822-06-0	<0.1%

### 4. First-aid measures

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

Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
Inhalation:	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. 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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use.
Eye Contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Notes to physician:	Treat symptomatically.

### 5. Fire-fighting measures

Hazards from combustion:	On burning may emit toxic fumes including those of carbon oxides, nitrogen oxides, isocyanate vapours and hydrogen cyanide.
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.
Suitable Extinguishing Media:	Water fog (or if unavailable fine water spray), 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:	Quickly wipe up material before it cures, with cloth or absorbent paper avoiding skin contact. Uncured material will dissolve in 50:50 mixture

of acetone and meths. Cured material can only be removed by abrasion.

For large spills: Wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Scrape up material before it cures. Collect and seal in properly labeled containers and seal once product has hardened. Wash area down with excess water. Cured material can only be removed by abrasion.

## 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 place and out of direct sunlight. Store away from acids, alcohols, oxidizing agents, moisture and sources of heat or ignition. Keep dry, reacts with water; may lead to drum rupture. 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 Worksafe NZ. However, NZ Workplace Exposure Standard(s) for constituent(s):  
Toluene<sub>(skin)</sub> TLV/TWA 50ppm, 188 mg/m<sup>3</sup>  
Xylene: TLV/TWA 50ppm, 217 mg/m<sup>3</sup>  
Isocyanates, all (as-NCO): TWA 0.02 mg/m<sup>3</sup>; STEL 0.07 mg/m<sup>3</sup>, sen, NZ, These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.

Sen –  
A substance that can ‘sensitise’ the respiratory system, inducing a state of hypersensitivity to it, so that on subsequent exposures, an allergic reaction can occur (which would not develop in non-sensitised individuals). It is uncommon to become sensitised to a compound after just a single reaction to it.

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
Solubility:	Slightly soluble in water.
Specific Gravity:	0.94
Flash Point (°C):	4°C
Flammability Limits (%):	1.2-8.0
Boiling Point/Range (°C):	110
Colour	Pale amber

## 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 oxidizing 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:	Swallowing can result in nausea, vomiting and central nervous system depression. Aspiration into lungs may cause chemical pneumonitis which can be fatal.
Eye contact:	An eye irritant.
Skin contact:	Irritant. Harmful in contact with skin.
Inhalation:	Harmful by inhalation. Narcotic at high vapour concentrations. May irritate the respiratory tract. May cause headache, dizziness, nausea and narcosis.
Long Term Effects:	No information available for the product. For the solvent evidence indicates that repeated or prolonged exposure to this chemical could result in central nervous system disorders.
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 xylene: Oral LD50 (mouse): 1590 mg/kg, Inhalation LC50 (rat): 6350 ppm toluene: Oral LD50 (rat): 636 mg/kg, Inhalation LC50 (rat) 4hr 12.5-28.8 mg/l Hexamethylene-1,6-diisocyanate: Inhalation LC50 (dust/mist) 30 mg/m <sup>3</sup> for 2hr, Dermal LD50 (rabbit) 593 mg/kg, Oral LD50 (mouse) 350 mg/kg 1-methoxy-2-propyl acetate: Oral LD50 (rat) 8532 mg/kg, Dermal LD50 (rabbit) 5000 mg/kg

## 12. Eco toxicological information

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

For constituent:

1-methoxy-2-propyl acetate: Acute Toxicity – Fish: LC50 (Oncorhynchus mykiss): 134 mg/l/96h

Daphnia EC50 (Daphnia magna): 408 mg/l/48h, Algae ErC50 (Pseudokirchneriella subcapitata): >1000 mg/l/96h

Xylene: Acute Toxicity fish: Rainbow trout EC50(96hr)3.3mg/L, Palaemonetes

pugio(crustacea)EC50(48 hr)8.5 mg/L, Skeletonema costatum(alga)EC50(72 hr) 10.0 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.

Empty container:

Do not let product enter the environment. Do not dispose of in waterways or sewers. Unwanted product should be brushed out on newspaper, allowed to cure and then disposed of via domestic waste collection.

Empty containers should be left open in a well-ventilated area to cure. When cured, recycle the container via recycling programs. Disposal of empty paint containers via domestic recycling programs 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 Transport of Dangerous Goods on Land.

UN No: 1263

Class-primary 3 Flammable Liquid

Packing Group: II

Proper Shipping Name: PAINT

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-primary: 3 Flammable Liquid

Packing Group: II

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: II

Proper Shipping Name: PAINT

## **15. Regulatory information**

ERMA Approval: HSR002662  
Group Standard: Surface Coatings and Colourants (Flammable) Group Standard

## **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.

This version replaces all previous versions.

END OF SDS