

# Safety Data Sheet



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

Product Name: AUSF & AUGF Hardener  
Recommended use: Two pack polyurethane coating for use in food processing, baking, beverage, dairy and meat industries.  
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

3.1C, 6.1E(Inhalation), 6.1E(Oral), 6.3B, 6.4A, 6.5A, 6.5B, 6.9B, 9.1C



EPA Approval:HSR002662

Surface Coatings and Colourants (Flammable) Group Standard 2017

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2017  
Classified as Dangerous Goods by NZS 5433 Transport of Dangerous Goods on Land.

### Hazard Statements:

H226: Flammable liquid and vapour.  
H303: May be harmful if swallowed.  
H316: Causes mild skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H333: May be harmful if inhaled.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H373: 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.  
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.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264: Wash hands thoroughly after handling.  
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.  
P285: In case of inadequate ventilation wear respiratory protection.

### Response Statements

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water.  
P304+P312+P341: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. 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.  
P333+P313: If skin irritation or rash occurs: Get medical advice/ attention.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
P363: Wash contaminated clothing before reuse.  
P370+P378: IN CASE OF FIRE: use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder) for extinction.  
P101: If medical advice is needed, have product container and label at hand.

### 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 reacted with the appropriate amount of resin and then 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 %
Hexamethylene diisocyanate homopolymer	28182-81-2	30 – 50%
1-methoxy-2-propyl acetate	108-65-6	20 – 40%
Aromatic hydrocarbon solvent	64742-95-6	10 – 30%
Hexamethylene-1,6- diisocyanate	822-06-0	< 0.04%

#### 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. Seek immediate medical assistance.
Inhalation:	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Skin Contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.
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:	IN CASE OF FIRE: use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder) for extinction.
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:	Quickly wipe up material before it cures, with cloth or absorbent paper avoiding skin contact.
For large spills:	Wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Scrape up material before it cures. Collect in properly labeled containers. 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.
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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):  
Isocyanates, all (as-NCO): WES-TWA 0.02 mg/m<sup>3</sup>; WES-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:	Negligible
Specific Gravity:	0.95-1.05
Flash Point (°C):	47°C
Flammability Limits (%):	0.8-6.0
Boiling Point/Range (°C):	143
Colour	Pale yellow

## 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. If the victim is showing signs of central system depression (like those of drunkenness) 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). May cause respiratory sensitization in sensitive individuals, producing asthma-like symptoms. 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 judgment and if exposure is prolonged, unconsciousness.
- 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 Aromatic hydrocarbon solvent: Oral LD50 (rat) 6800 mg/kg, Dermal LD50 (rabbit) 3400 mg/kg, Inhalation LC50 (rat) 1320 ppm/6hrs/90 days.
- Hexamethylene diisocyanate homopolymer: Inhalation LC50 (rat) 18500 mg/kg
- Hexamethylene diisocyanate: Inhalation LC50 (dust/mist) 30mg/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) 85332 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.

Aromatic hydrocarbon solvent: Acute toxicity – Fish:LL/EL/IL50: 1-10 mg/l, Algae:1-10mg/l, Aquatic invertebrates: 1-10 mg/l, microorganisms 10-100mg/l

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

## 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 contaminate storm water with product or product washing. Do not pour product down the drain. Unwanted product should be reacted with the appropriate amount of resin and then 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 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

ERMA Approval: HSR002662

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

## **16. Other information**

This SDS 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