

1. Identification

Product Name:	Duracoat AUSF 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)
Emergency Telephone:	After hours phone CHEMCALL 0800 243622 (or +64 4 9179888)
National Poison Information Centre	0800 POISON (764766)
Date of issue	31 st March 2025

2. Hazards identification

GHS classification of the substance/mixture

Classified as Hazardous according to Hazardous Substances (Hazard Classification) Notice 2020

Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433: 2020 Transport of Dangerous Goods.



Flammable Liquid Category 3, Acute inhalation toxicity Category 4, Eye irritation Category 2, skin sensitization Category 1, reproductive toxicity Cat 2, Specific target organ toxicity (single exposure) Category 3 (Respiratory system), Specific target organ toxicity (single exposure) Category 2, Aquatic toxicity (chronic) Category 2.

EPA Approval: HSR002662

Surface Coatings and Colourants (Flammable) Group Standard 2020

3.1C, 6.1D (i), 6.1E (resp tract), 6.4A, 6.5B, 6.8B, 6.9B, 9.1B

Signal Word:

DANGER

Hazard Statements:

H226: Flammable liquid and vapour.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H361: Suspected of damaging fertility or the unborn child

H371: May cause damage to organs through prolonged or repeated exposure.

H411: Toxic to aquatic life with long-lasting effects

Precautionary Statements - Prevention

P102: Keep out of reach of children.

P103: Read label before use.
P201: Obtain special instructions before use
P202: Do not handle until all safety instructions 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.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe fume/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-ventillated 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 protectice equipment as required.
P285: In case of inadequate ventilation wear respiratory protection.

Precautionary Statements – Response:

P101: If medical advice is needed, have product container and label at hand.
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.
P312: Call a POISON CENTER or doctor/physician if you feel unwell
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P304+P340: Remove to fresh air and keep at rest in a position comfortable for breathing.
P308+P313: IF exposed or concerned: Get medical advice
P309+P311: IF exposed or if you feel unwell: Get medical advice
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.
P391: Collect spillage

Precautionary Statements – Storage:

P403+P235: Store in a well-ventilated place. Keep cool.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up

Precautionary Statements – Disposal:

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	20 – 40%
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

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.
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.
Hazchem Code	3[Y]

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ventilate the area and avoid breathing vapours. Wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Remove sources of ignition, do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapour levels are below the Lower Explosive Limit before re-entering.

Environmental related measures:

Do not allow to escape into waterways, wastewater or soil. If contamination of sewers or waterways has occurred advise local emergency services.

Methods and material for containment and cleaning up

Small spills: Quickly wipe up material before it cures, with cloth or absorbent paper avoiding skin contact..

Large spills: Contain and absorb spillage with non combustible materials e.g. sand, earth vermiculate. Scrape up material before it cures. Collect in properly labeled containers and seal once product has hardened.

7. Handling and storage

Precautions for safe handling: Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in processes in which this product is used. 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.

Condition for safe storage, including incompatibilities: 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 tightly closed at all times, check regularly for leaks. Prevent unauthorized access.

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 ³ ; WES-STEL 0.07 mg/m ³ , These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.
Biological Limit Values:	No biological limits allocated
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:	Pale Yellow Liquid
Odour:	Solvent like
Odour Threshold:	not established
pH:	not applicable
Melting/Freezing point:	not established
Boiling point/boiling range:	ca. 143 °C
Flash point:	41 °C
Flammability (solid, gas):	not applicable
Upper/lower flammability or explosive limits:	0.8-7.0
Vapour pressure:	not established
Vapour density:	not established
Specific gravity:	0.95-1.05
Solubility:	Negligible.
Partition coefficient (n-octanol/water):	not established
Auto-ignition temperature:	not applicable
Decomposition temperature:	not established
Viscosity:	not established
Particle characteristics:	not established

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, strong acids and bases.
Hazardous decomposition products:	

On burning may emit toxic fumes including those of carbon monoxide, carbon dioxide, smoke, nitrogen oxides and isocyanate vapours

11. Toxicological information

Data sourced from raw material SDSs and/or CCID.

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.
- Acute toxicity:** 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/m³ 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.

Skin Corrosion/Irritation: Not classified.

Eye Corrosion/Irritancy: This material has been classified as Eye irritation, category 2 -Substances that are irritating to the eye.

Sensitisation: Inhalation: not classified.

Skin: this material has been classified Skin sensitisation Category 1 -Substances that are contact sensitisers.

Mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity (including via lactation): This material has been classified as reproductive toxicity Category 2, suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure): This material has been classified as Specific Target Organ Toxicity (single exposure) Category 2

This material has been classified as Specific Target Organ Toxicity (single exposure) Category 3 (respiratory system).

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

12. Ecological 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

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available

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 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 programmes. Disposal of empty paint containers via domestic recycling programmes may differ between local authorities. Check with your local council first.

14. Transport information

Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433: 2020 Transport of Dangerous Goods.



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

EPA Approval:HSR002662
Surface Coatings and Colourants (Flammable) Group Standard 2022
Certified Handler : Not required
Tracking: Not required
All ingredients are on the New Zealand Inventory of Chemicals (NZIoC), or exempt.

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.

Glossary

EPA: Environmental Protection Authority (NZ)
WES: NZ Work Exposure Standard
TWA: Time Weighted Average
STEL: Short Term Exposure Limit
CCID: Chemical Classification & Identification Database (EPA)

END OF SDS