

## 1. Identification

Product Name: Panel Laminating Adhesive  
Other Names:  
Recommended use: Moisture cure single pack urethane adhesive  
Supplier: Uroxsys Ltd  
Street Address: 2 Stonedon Drive, East Tamaki, Auckland  
Telephone Number: +64 9 2740808 (8.00am to 4.30pm, 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 1<sup>st</sup> September 2022

## 2. Hazards identification

### GHS classification of the substance/mixture:

Classified as Hazardous according to Hazardous Substances (Hazard Classification) Notice 2020  
Not Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433: 2020  
Transport of Dangerous Goods.



Acute toxicity Inhalation Category 4, Skin Irritation Category 2, Eye irritation Category 2, Respiratory sensitisation Category 1, skin sensitisation Category 1, Carcinogenicity Category 2, STOT (repeated exposure) Category 2

EPA Approval: HSR002679  
Surface Coatings and Colourants (Carcinogenic) Group Standard 2020  
6.1D(i), 6.3A, 6.4A, 6.5A, 6.5B, 6.7B, 6.9B

**Signal Word:** DANGER

### Hazard Statements:

H332: Harmful if inhaled  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H372: Causes damage to organs  
H351: Suspected of causing cancer  
H373: May cause damage to organs through prolonged or repeated exposure

### Precautionary Statements – Prevention:

- 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.
- P260: Do not breathe fumes/mist/gas/vapour/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.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P285: In case of inadequate ventilation wear respiratory protection. (*see section 8*)

### Precautionary Statements – Response:

- P101: If medical advice is needed, have product container or label at hand.
- P302+P352: IF ON SKIN: 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.
- P308+P313: IF exposed or concerned: Get medical advice/ attention.
- P314: Get medical advice/attention if you feel unwell.
- 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.
- P362: Take off contaminated clothing and wash before re-use.
- P363: Wash contaminated clothing before reuse.

### Precautionary Statements – Storage:

Store in well ventilated space.

### Precautionary Statements – Disposal:

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 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	%
MDI/PPG Prepolymer		30 – 60
Polymethylene polyphenylisocyanate	9016-87-9	20 - 40
4,4'-Methylenebis(phenyl isocyanate)	101-68-8	10 – 20
MDI Mixed Isomers	26447-40-5	< 1

## 4. First-aid measures

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

Ingestion:	Immediately rinse mouth with water. Do not induce vomiting. Seek 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: Wash with plenty of soap and water. 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:	The manifestations of respiratory symptoms including pulmonary edema, resulting from acute exposure may be delayed. Supportive care. Treatment based on judgment by the doctor in response to reactions of the patient.

## 5. Fire-fighting measures

Hazards from combustion:	Will support combustion. Toxic fumes are released in fire situations.
Fire-fighting advice:	On burning may emit toxic fumes including those of carbon monoxide, nitrogen oxide, isocyanate vapours and hydrogen cyanide. 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:	Dry chemical powder, Carbon dioxide, chemical foam; in case of larger fires, water spray should be used.
Hazchem Code:	Not applicable

## 6. Accidental release measures

Emergency procedures:	If contamination of sewers or waterways has occurred advise local emergency services.
Methods for containment & clean up:	Evacuate spill area. Contain spill. Wear protective clothing and breathing apparatus during clean up. Absorb spill with sand or earth and shovel into open top containers, do not make pressure tight. Treat with neutralizing solution (90% water, 2-7% detergent, 3-8% concentrated ammonium hydroxide). About 10 parts neutralizing solution per part of isocyanate with mixing. Collect spillage.

## 7. Handling and storage

Handling advice:	Avoid skin and eye contact.
Storage advice:	Store in a cool place and out of direct sunlight. Store away from

alcohols, amines, moisture and sources of heat or ignition. Keep dry, reacts with water. 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): TWA 0.02 mg/m <sup>3</sup> ; STEL 0.07 mg/m <sup>3</sup> ,
Engineering Control Measures:	Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Use in well ventilated area. Keep containers closed when not in use.
Personal Protective Equipment:	Avoid skin and eye contact and inhalation of vapour or spray. Wear overalls, safety boots, full-face visor and general purpose gloves (PVC). 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 in water:	Insoluble
Specific Gravity:	1.12
Flash Point (°C):	>100°C
Flammability Limits (%):	Not applicable
Boiling Point/Range (°C):	180 °C
Colour	Brown

## 10. Stability and reactivity

Stability:	Stable under normal conditions.
Conditions to avoid:	Avoid contact with foodstuffs.
Incompatible materials:	Reacts with alcohols, acids, oxidizing agents and moisture.

## 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:	May cause vomiting, nausea and abdominal pain.
Eye contact:	May cause slight eye irritation.
Skin contact:	Prolonged or repeated exposure may cause skin irritation. May result in allergic skin reactions or respiratory sensitization.

Inhalation:	Vapours may cause irritation of the mucous membranes in the throat and lungs. May cause respiratory sensitization in susceptible individuals. MDI concentrations below the exposure standard may cause allergic respiratory reactions in individuals already sensitized. Symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Effects may be delayed.
Long term Effects:	There are reports that chronic exposure to isocyanates by inhalation, may result in a permanent decrease in lung function.
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: 4,4'-Methylenebis(phenyl isocyanate): Inhalation LC50 (rat) 0.369 mg/l, 4 hr, dust/mist. Oral LD50 (mouse) 2200 mg/kg Polymethylene polyphenylisocyanate: Inhalation LC50 (rat) 0.490 mg/m <sup>3</sup> , mist (EPA) The test atmosphere is not representative of workplace environments and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing the hazard. Product will not be sprayed.

## 12. Ecological information

Avoid contaminating waterways, drains, sewers or ground. LC50>100 mg/l in most sensitive species.

### Acute Fish toxicity ,

4,4'-Methylenebis(phenyl isocyanate): LC50> 1.000 mg/l Test type: Acute Fish toxicity Species: Danio rerio (zebra fish) Exposure duration: 96 h Method: OECD Test Guideline 203

4,4'-methylenediphenyl diisocyanate, oligomers LC50> 1.000 mg/l Test type: Acute Fish toxicity Species: Danio rerio (zebra fish) Exposure duration: 96 h Method: OECD Test Guideline 203

### Acute toxicity for daphnia

4,4'-Methylenebis(phenyl isocyanate): EC50 > 1.000 mg/l Species: Daphnia magna (Water flea) Exposure duration: 24 h Method: OECD Test Guideline 202

4,4'-methylenediphenyl diisocyanate, oligomers: EC50 > 1.000 mg/l Species: Daphnia magna (Water flea) Exposure duration: 24 h Method: OECD Test Guideline 202.

### Chronic toxicity to daphnia

4,4'-Methylenebis(phenyl isocyanate): NOEC (Reproduction) > 10 mg/l Species: Daphnia magna (Water flea) Exposure duration: 21 d Method: OECD Test Guideline 202.

Water flea) Exposure duration: 21 d Method: OECD Test Guideline 202

### Acute toxicity for algae

4,4'-Methylenebis(phenyl isocyanate): ErC50 > 1.640 mg/l Test type: Growth inhibition Species: scenedesmus subspicatus Exposure duration: 72 h Method: OECD Test Guideline 201

4,4'-methylenediphenyl diisocyanate, oligomers: ErC50 > 1.640 mg/l Test type: Growth inhibition Species: scenedesmus subspicatus Exposure duration: 72 h Method: OECD Test Guideline 201

## 13. Disposal considerations

Refer to Waste Management Authority. 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 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**

Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433: 2020 Transport of Dangerous Goods.

### Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## **15. Regulatory information**

EPA Approval: HSR002679

Surface Coatings and Colourants (Carcinogenic) Group Standard 2020

## **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