

# Safety Data Sheet



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

Product Name: Bondurox Dvise LFF/ Bondurox Dvise LFF Fast  
Other Names:  
Recommended use: Polyurethane Adhesive (moisture cure)  
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 18<sup>th</sup> July 2018

## 2. Hazards identification

**DANGER**



6.1D (Inhalation), 6.3A, 6.4A, 6.5A, 6.5B, 6.9A, 6.9(Respiratory), 9.3A

EPA Approval:HSR002670. Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2006

Not classified as Dangerous Goods by NZS 5433, Transport of Dangerous Goods on Land.

### Hazard Statements:

H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H373 Causes damage to organs through prolonged or repeated exposure  
H335 May cause respiratory irritation.  
H431 Very toxic to terrestrial vertebrates.

### Prevention Statements

- P102 Keep out of reach of children.
- P103 Read label before use.
- P261 Avoid breathing fume/gas/mist/vapours.
- P271 Use only outdoors or in a well-ventilated area.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/eye protection/face protection.
- P285 In case of inadequate ventilation wear respiratory protection. (See section 8)
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.

### Response Statements

- P101 If medical advice is needed, have product container or label at hand.
- P304+P341 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P302+PP352 IF ON SKIN: Wash with plenty of soap and water.
- P362 Take off contaminated clothing and wash before re-use.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P391 Collect spillage.

### Disposal Statement

P501 Do not let this product enter the environment. Do not dispose of in waterways or sewers. Unwanted product should be poured out on newspaper or sawdust and allowed to cure and then disposed of as non-hazardous waste. Empty cans should be left open in a well-ventilated area to cure then disposed of via domestic waste collection.

## 3. Composition/information on ingredients

Material	CAS No	Content %
IsocyanatePrepolymer		40 – 60
Methylene, 4,4'-diphenyl diisocyanate-	101-68-8	20 – 30
Propylene carbonate	108-32-7	10 – 20
4,4'-Methylenediphenyl diisocyanate, oligomers	25686-28-6	< 10

## 4. First-aid measures

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

**Ingestion:** Immediately rinse mouth with water. Give plenty of water to drink. If vomiting occurs give further water. Seek medical assistance.

**Inhalation:** Remove victim from area of exposure - avoid becoming a casualty. 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:** Wipe material from skin with cloth or absorbent paper. Wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering, or irritation occurs seek medical advice. Traces of cured material (after water contact) is not considered hazardous. Do NOT remove with solvent. Allow to peel off naturally or hasten by soaking in tepid to warm water.

**Eye Contact:** Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Remove clothing is contaminated and wash skin. Seek immediate medical assistance.

**Notes to physician:**

Treat symptomatically. Effects may be delayed.

## 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)

## 6. Accidental release measures

**Emergency procedures:** If contamination of sewers or waterways has occurred advise local emergency services.

**Methods for containment & clean up:**

For small spills: Quickly wipe up material before it cures, with cloth or absorbant paper avoiding skin contact. Uncured material will dissolve in acetone or acetone based nail polish remover. 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 for disposal. 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.

**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 the New Zealand Occupational Safety and Health Service (OSH). However, 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>, sen, NZ

As published by the New Zealand Occupational Safety and Health Service (OSH)

TWA (Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

STEL (Short Term Exposure Limits) - The 15 minute average exposure standard. Applies to any 15 minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both short-term and eight hour, time-weighted average exposures should be determined.

‘Sen’ Notice – sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to exposure to minute levels of that substance.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

### 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:	Brownish liquid
Solubility:	Insoluble in water.
Specific Gravity:	1.13
Flash Point (°C):	>100°C (closed cup)
Flammability Limits (%):	Not available
Boiling Point/Range (°C):	242

## 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:** Swallowing can result in nausea and abdominal pain.
- Eye contact:** An eye irritant.
- Skin contact:** Contact with skin may result in irritation. May cause skin sensitization in sensitive individuals. Repeated or prolonged skin contact may lead to allergic contact dermatitis. Animal studies have shown that respiratory sensitisation can be induced by skin contact with known respiratory sensitisers including diisocyanates.
- Inhalation:** Repeated inhalation of vapour or spray mists at levels above the occupational exposure standard could cause respiratory sensitization. Symptoms may include irritation of the eyes, nose, throat and lungs, possibly with dryness of the throat, tightness of the chest and difficulty breathing. Onset of respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response may develop to even minimal concentrations of MDI in sensitized individuals.

### 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 MDI products:

Oral LD50 (rat): >15000 mg/kg, Inhalation LC50 (rat): 490 mg/m<sup>3</sup> (aerosol)

## 12. Eco toxicological information

Avoid contaminating waterways. This product is not classified as ecotoxic according to the criteria of HSNO. Ecological Data for Polymethylene polyphenylisocyanate (MDI) Acute Toxicity to Fish LC50: > 1000 mg/l (Zebra fish (Brachydanio rerio), 96 h)

### **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 this product enter the environment. Do not dispose of in waterways or sewers. Unwanted product should be poured out on newspaper or sawdust and allowed to cure and then disposed of as non-hazardous waste. Empty cans should be left open in a well-ventilated area to cure then disposed of via domestic waste collection.

### **14. Transport information**

Road and Rail Transport

Not classified as Dangerous Goods by NZS 5433:1999 Transport of Dangerous Goods on Land.

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:HSR002670.

Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2006

### **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.

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This version replaces all previous versions.

END OF SDS