



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF MATERIAL & COMPANY DETAILS

Product Name: 540 POLYURETHANE HARDENER (PART 'B'):

Company Name: Lacnam Paints Australia
Address: 78-80 Mandoon Road, Girraween, NSW 2145
Telephone Number: (02) 9688-1999
Emergency Number: (02) 9636-5505 (after hours)

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE-DANGEROUS GOODS:
Classified as hazardous according to criteria of ASCC.
Classified as dangerous according to Dangerous Good Code.

Xn	Harmful	T	Toxic (Hexamethylene Di-isocyanate)
Xi	Irritant	N	Dangerous to the Environment

Risk Phrases:

R11 Highly Flammable.
R20/21/22 Harmful by Inhalation, in contact with skin and if swallowed.
R23 Toxic by inhalation.
R36/37/38 Irritating to eyes, respiratory system and skin.
R41 Risk of serious eye damage.
R42 May cause sensitization by inhalation.
R43 May cause sensitization by skin contact.
R51 Toxic to aquatic organisms
R53 May cause long-term adverse effects in the aquatic environment.
R65 Harmful: May cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness and cracking.
R67 Vapours may cause drowsiness and dizziness.

Safety Phrases:

S2 Keep out of reach of children.
S3/7 Keep container tightly closed in a cool place.
S9 Keep container in well ventilated place.
S13 Keep away from food, drink, and animal feeding stuffs.
S15 Keep away from heat.
S16 Keep away from sources of ignition-No smoking.
S20 When using do not eat or drink.

MATERIAL SAFETY DATA SHEET

540 Polyurethane Hardener Part B

Page 2 of 6

Date of issue 23 December 2008

2. HAZARDS IDENTIFICATION

- S23 Do not breathe gas/fumes/vapour/spray.
S24 Avoid contact with skin.
S25 Avoid contact with eyes.
S26 In case of contact with eyes, immediately rinse with plenty of water and seek medical advice.
S27 Take off immediately all contaminated clothing.
S29 Do not empty into drains.
S33 Take precautionary measures against static discharges.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.
S43 In case of fire use: Foam, Dry chemical powder, Carbon dioxide, Water spray or fog (for large fires only) as extinguishing media.
S51 Use only in well ventilated areas.
S61 Avoid release to the environment.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this label or can.

3. COMPOSITION/INFORMATION OF INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion</u>
Aliphatic Polyisocyanate Resin	28182-81-2	60-80%
Acetates	108-65-6	10-20%
Liquid Hydrocarbons	108-88-3	10-20%

Content of Hexamethylene Di-isocyanate less than 0.5%

4. FIRST AID MEASURES

- Inhalation:** If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist, obtain medical advice.
- Skin:** Remove all contaminated clothing and footwear. Wash contaminated area thoroughly with soap and water as soon as reasonably practicable.
- Eyes:** Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.
- Swallowed:** Rinse mouth with water. Give water to drink. Do not induce vomiting. If vomiting occurs, place person's face

MATERIAL SAFETY DATA SHEET

540 Polyurethane Hardener Part B

Page 3 of 6

Date of issue 23 December 2008

4. FIRST AID MEASURES

downwards, head lower than hips to prevent vomit entering lungs. Seek medical advice.

First Aid Facilities: Ensure that an eye wash bath and safety shower, are readily accessible.

Advice to Doctor: Treat the patient symptomatically.

5. FIRE FIGHTING MEASURES:

Evacuate immediate area of non-emergency personnel.

On combustion the following products may be produced, Carbon Monoxide, Nitrogen Oxide, Isocyanate Vapour, and traces of Hydrogen Cyanide. Do not let contaminated extinguishing water enter into soil, surface or groundwater.

Use foam, dry chemical or carbon dioxide extinguishers. Water spray may be used to cool containers to prevent vapour pressure build up. Wear full protective equipment including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

Eliminate all sources of ignition. Wear full protective equipment. Contain and absorb using earth, sand or other inert material, do not use sawdust, this is flammable. Transfer into containers for disposal according to local regulations. Do not allow product to enter drains or water courses. Immediately remove all contaminated clothing after containment.

7. HANDLING AND STORAGE:

Keep containers closed when not in use. Store product in accordance with State, or Territory Dangerous Goods regulations. Do not load on the same vehicle as Class 1, Class 2.1, Class 2.3, Class 4.2, Class 5.1, Class 5.2 or Class 7.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

No evaluated data available for 540 Polyurethane Hardener Part B.

Hazardous Components Data:

Chemical Type:	CAS. No	TWA (Refer Section 16)	
		ppm	mg/m ³
Hexamethylene Di-isocyanate (Resin)	822-06-0		0.02
Ethyl Benzene (Resin)	100-41-4	100	434
Xylene (Resin)	1330-20-7	80	350
Acetates	108-65-6	50	270
Liquid Hydrocarbons	108-88-3	50	191

MATERIAL SAFETY DATA SHEET

540 Polyurethane Hardener Part B

Page 4 of 6

Date of issue 23 December 2008

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

Exposed individuals may be desensitised to product and are not reasonably expected to be warned, by smell, that exposure standard is being exceeded.

If the TWA concentration of ANY of the components is exceeded the individual is deemed to be over exposed.

Engineering Controls: Ensure ventilation is adequate. When spraying, ensure product is applied in a fully functional spray-booth. Keep containers closed when not in use. Do not use near ignition sources.

Personal Protection: Avoid contact with skin and eyes. Wear suitable clothing such as impervious overalls, PVC or Neoprene gloves, and safety goggles. Wear an approved half-face respirator, minimum requirement class A1/P3 filter system, suitable for organic vapour and particles, meeting AS1715/1716. In confined spaces with inadequate ventilation, wear an air-fed face mask.

Flammability: Highly flammable. Avoid heat and sources of ignition. Container should be earthed when pouring.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Clear viscous liquid.

Boiling/Melting Point (°C): 110 / Not available

Vapour Pressure: Not available

Specific Gravity: 0.90-1.00

Flashpoint (°C): 4.0

Auto-ignition temperature (°C): 315

Flammability Limits (% by Volume): Not available

Solubility in Water: Not available

10. STABILITY AND REACTIVITY:

Do not store: In areas of extreme heat generated by naked flame or heating element. In the presence of incompatible materials.

At Ambient Temperature: Product is considered stable. Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION:

Acute - Swallowed: May cause irritation to mouth, throat and digestive tract. Large dose may cause drowsiness and may lead to unconsciousness.

Acute - Eye: Irritating to the eyes.

Acute - Skin: Irritating to the skin. Has a degreasing action on the skin. Repeated or prolonged skin contact may lead to contact dermatitis and toxic effects.

Acute - Inhaled: Vapour may be an irritant to mucous membranes and respiratory tract.

MATERIAL SAFETY DATA SHEET

540 Polyurethane Hardener Part B

Page 5 of 6

Date of issue 23 December 2008

11. TOXICOLOGICAL INFORMATION:

Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and, if exposure is prolonged, unconsciousness. Harmful if inhaled.

Chronic: Repeated or prolonged exposure to this chemical could result in central nervous system disorders.

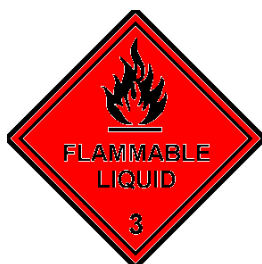
12. ECOLOGICAL INFORMATION:

Prevent release into the environment.
Do not discharge into sewer or waterways.
May cause adverse effects to marine organisms.
May cause adverse effects to marine environment.

13. DISPOSAL CONSIDERATIONS:

Refer to State Land Waste Management Authority. Advice flammable nature of product. Normally suitable for incineration by approved agent. Recycle containers if possible, or dispose of in authorised landfill.

14. TRANSPORT INFORMATION:



Classified as Dangerous Goods by criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

Product Name: 540 Polyurethane Hardener Part B.

Other Names: Hardener

Manufacturer's Product Code: 540B

UN Number: 1263

Packaging Group: III

Dangerous Goods Class & Subsidiary Risk: 3

Hazchem Code: 3[Y]E

Use: Hardener for 2K Paint.

Do not load on the same vehicle as:

Class 1:	Explosives
Class 2.1:	Flammable Gases
Class 2.3:	Toxic Gasses
Class 4.2:	Spontaneously Combustible Substances
Class 5.1:	Oxidising Agents
Class 5.2:	Organic Peroxides
Class 7:	Radioactive Substances

MATERIAL SAFETY DATA SHEET

540 Polyurethane Hardener Part B

Page 6 of 6

Date of issue 23 December 2008

15: REGULATORY INFORMATION:

Poisons Schedule: 6

16: OTHER INFORMATION:

TWA: Exposure standard-time weighted average; the average airborne concentration of a particle substance when calculated over a normal eight hour working day, for a five day week.

ppm: Parts of vapour or gas per million parts of contaminated air by volume.

mg/m3: Milligrams of substance per cubic metre of air at 25°C and one atmosphere pressure. When entry is in this column only the value is exact; when listed with a ppm value, it is approximate.

CONTACT POINT

Technical Manager	- Working hours	(02) 9688-1999
	- After hours	(02) 9636-5505

Although this information is presented in good faith and compiled from various sources believed to be accurate, Lachnam Paints make no representations or warranty as to the completeness or accuracy thereof. As the product's performance and suitability depends on various factors, the purchasers of our products should determine for themselves whether the product is suitable for their particular use.

Hazardous according to criteria of Australian Safety Compensation Council