



Material Safety Data Sheet

Infosafe No. LPT65 Issue Date : August 2004 ISSUED by PARCHEMC

Product Name : DURAFLOOR N(NOVOLAC) HARDENER

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name DURAFLOOR N(NOVOLAC) HARDENER
Product Use Hardener component of a general purpose binder for use in environments where high chemical resistance is required.
Company Name Parchem Construction Products Pty Ltd (ABN 80 069 961 968)
Address 7 Lucca Road Wyong
NSW 2259 Australia
Emergency Tel. 1800 638 556
Telephone Number/Fax Tel: 02 4350 5000 Fax: 02 4351 2024
Other Information This MSDS summaries at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Parchem Construction Products Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.
If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for product as sold is subject to our standard term and conditions, a copy of which is sent to our customers and is also available upon request.

www.parchem.com.au

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Benzyl alcohol	100-51-6	10-60 %
	Isophorone diamine	2855-13-2	10-60 %
	Trimethylhexamethylenediamine	25620-58-0	10-30 %
	4,4'-Isopropylidenediphenol	80-05-7	0-10 %
	Other ingredients determined not to be hazardous	Not required	Balance

3. HAZARDS IDENTIFICATION

Classified as hazardous according to the criteria of NOHSC.
Classified as a dangerous good according to the ADG Code.

Risk phrases:
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R43 May cause sensitization by skin contact.

Safety phrases:
S23 Do not breathe gas/fumes/vapour/spray.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Medical Conditions Generally Aggravated by Exposure Those persons previously sensitised to isophoronediamine should take particular care when working with this product.



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4. FIRST AID MEASURES

Inhalation	Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Apply artificial respiration if not breathing. Seek medical attention.
Ingestion	Do NOT induce vomiting. Wash out mouth with water. Seek medical attention.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
Eye	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
First Aid Facilities	Eye wash and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 131 126; New Zealand 0800 764 766) or a doctor (at once).

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use dry chemical powder, carbon dioxide or foam. Do NOT use water jets. Cool fire exposed containers with water spray.
Specific Hazards	Combustible liquid. This product will burn if exposed to fire.
Hazardous Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide and oxides of nitrogen.
Precautions in connection with Fire	Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Increase ventilation. Wear appropriate breathing apparatus and full protective clothing to minimise skin and eye exposure. Do not dilute material but contain. Place inert, non-combustible absorbent material onto the spillage. Collect the material using clean non-sparking tools and place into a suitable labelled container for subsequent disposal. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Handling	Open containers cautiously as contents may be under pressure. Use only in a well ventilated area. DO NOT store or use in confined spaces. Do not enter these areas without respiratory protection or until the atmosphere has been checked. Keep tank covered and containers sealed when not in use. Build up of mists or vapours in the atmosphere must be prevented. Avoid inhalation of vapour and mists. Do not use near welding or other ignition sources and avoid sparks. Do not smoke. When dealing with large quantities, repeated or prolonged exposure without protection should be prevented in order to lessen the possibility of disorders. It is essential that all who come into contact with this material, maintain high standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or using toilet facilities.
Storage	Store in a cool, dry, well ventilated area away from sources of ignition, oxidising agents, foodstuffs, clothing and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all Local, State and Federal regulations.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits	No value assigned for this specific material by the Australian National Occupational Health and Safety Commission (NOHSC).
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Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.
Eye Protection	Safety glasses with side shields or face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances ie. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337- Eye Protectors for Industrial Applications.
Hand Protection	Impervious gloves recommended. Final choice of appropriate gloves will vary according to individual circumstances ie. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance.
Body Protection	Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.
Eng. Controls	Provide sufficient ventilation. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS 2430 - Explosive gas atmospheres for further information concerning ventilation requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear pale yellow/colourless liquid.
Odour	Amine
Melting Point	Not available
Boiling Point	> 200°C
Solubility in Water	Negligible
Specific Gravity (H2O=1)	0.95
pH Value	Not available
Vapour Pressure	0.15 mmHg (Benzyl alcohol)
Vapour Density (Air=1)	Not available
Flash Point	> 95°C
Flammability	Classified as a Class C1 (COMBUSTIBLE LIQUID) for the purposes of storage and handling, in accordance with the requirements of AS1940. This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition.
Ignition Temperature	Not available
Flammable Limits LEL	0.6%
Flammable Limits UEL	13.0%

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Hazardous Polymerization	May not occur.
Materials to Avoid	Strong acids, strong bases and strong oxidising agents.
Hazardous Decomposition Products	Oxides of carbon, oxides of nitrogen and fumes. A slight exothermic reaction may be noted during curing.
Conditions to Avoid	Heat, flames and other ignition sources.



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11. TOXICOLOGICAL INFORMATION

Toxicology Information No toxicity data available for this specific material.

Inhalation Harmful by inhalation. Inhalation of mists or vapours will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary edema, pneumonitis and emphysema.

Ingestion Harmful if swallowed. Ingestion of this product may cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.

Skin Harmful in contact with skin. Skin contact will cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction. This product may cause sensitisation in some individuals.

Eye Harmful if contact with eye. Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.

Chronic Effects Prolonged or repeated skin contact may lead to allergic contact dermatitis and sensitisation in some individuals.

12. ECOLOGICAL INFORMATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Environ. Protection Prevent this material entering waterways, drains and sewers.

Mobility No data available for this specific material.

Persistence / Degradability No data available for this specific material.

Bioaccumulation No data available for this specific material.

Ecotoxicity No data available for this specific material.

13. DISPOSAL CONSIDERATIONS

Dispose of waste according to federal, EPA and state regulations.

14. TRANSPORT INFORMATION

This material is classified as a Class 8 (Corrosive) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following:

- Class 1, Explosive
- Class 4.3, Dangerous When Wet Substance
- Class 5.1, Oxidising Agent
- Class 5.2, Organic Peroxide
- Class 6, Toxic and Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
- Class 7, Radioactive Substance

and are incompatible with food and food packaging in any quantity.

ADG U.N. Number 2735

ADG Proper Shipping Name AMINES, LIQUID, CORROSIVE, N.O.S. - (CONTAINS ISOPHORONE DIAMINE AND TRIMETHYLHEXAMETHYLENEDIAMINE)

ADG DG Class 8

ADG Hazchem Code 3X

ADG Packaging Method 5.9.8

ADG Packing Group III

ADG EPG Number 8A1

ADG IERG Number 36

15. REGULATORY INFORMATION

Risk Phrase R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R43 May cause sensitization by skin contact.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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Safety Phrase

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S46 If swallowed, seek medical advice immediately and show this container or label.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Poisons Schedule S5

Hazard Category Harmful, Corrosive, Dangerous for the environment

16. OTHER INFORMATION

Contact Person/Point Technical Support: 1800 812 864

SDS History MSDS Creation: August 2004.

...End Of MSDS...