

Infosafe No™ LPT46

Issue Date : August 2012

ISSUED by PARCHEMC

Product Name : **DURAFLOOR HP HARDENER**

Classified as hazardous

1. Identification

GHS Product Identifier	DURAFLOOR HP HARDENER
Company Name	Parchem Construction Supplies Pty Ltd (ABN 80 069 961 968)
Address	7 Lucca Road Wyong NSW 2259 Australia
Telephone/Fax Number	Tel: 02 4350 5000 Fax: 02 4351 2024
Emergency phone number	1800 638 556 (available 24/7)
Recommended use of the chemical and restrictions on use	Curing agent for Durafloor HP epoxy resin coating system.
Other Information	<p>This MSDS summarises 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 Supplies 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.</p> <p>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 terms and conditions, a copy of which is sent to our customers and is also available upon request.</p> <p>www.parchem.com.au</p>

2. Hazard Identification

GHS classification of the substance/mixture	<p>Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia</p> <p>Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)</p> <p>Acute Toxicity - Oral, Category 4 Acute Toxicity - Inhalation, Category 4 Acute Toxicity - Dermal, Category 4 Skin Corrosion/irritation, Category 1 Serious eye damage/irritation, Category 1 Skin Sensitiser, Category 1 Hazardous to the Aquatic Environment - Long-Term Hazard, Category 3</p>
Signal Word (s)	Danger
Hazard Statement (s)	<p>H302 Harmful if swallowed.</p> <p>H312 Harmful in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H332 Harmful if inhaled.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>
Pictogram (s)	Corrosion, Exclamation mark,



Precautionary statement – Prevention	<p>P102 Keep out of reach of children.</p> <p>P103 Read label before use.</p> <p>P260 Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P264 Wash skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p>
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Precautionary statement – Response

P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment. -This statement does not apply where this is the intended use.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P101 If medical advice is needed, have product container or label at hand. -This statement applies only where the substance is available to the general public.
 P310 Immediately call a POISON CENTER or doctor/physician.
 INGESTION.
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
 INHALATION
 P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 EYES
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 SKIN
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P363 Wash contaminated clothing before reuse.
 P405 Store locked up.

Precautionary statement – Storage

P501 Dispose of contents/container to an approved waste disposal plant

**Precautionary statement – Disposal
Other Information**

If cured material made using this product is to be machined, or sanded, a dust explosion hazard may be created. All dust generated should be removed as quickly as possible, preferably by the use of a vacuum cleaner.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Benzyl alcohol	100-51-6	25-50 %
	Isophoronediamine	2855-13-2	25-50 %
	Nonylphenol	25154-52-3	0-<2.5 %
	Other ingredients determined not to be hazardous	Not required	Balance

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Ensure contaminated clothing is washed before re-use or discard. Seek immediate medical attention.
Eye contact	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. Seek immediate medical attention.
First Aid Facilities	Eye wash, safety shower 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

Suitable extinguishing media	Use carbon dioxide, dry chemical, foam or water mist.
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Hazards from Combustion	Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide and oxides of nitrogen.
Products	
Specific hazards arising from the chemical	Combustible liquid. This product will burn if exposed to fire.
Hazchem Code	2X
Decomposition Temp.	>200°C
Precautions in connection with Fire	Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode. Water spray may be used to keep fire exposed containers cool.

6. Accidental release measures

Emergency Procedures	Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.
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7. Handling and storage

Precautions for Safe Handling	Corrosive and combustible liquid. Attacks skin and eyes. May produce severe burns. Wear suitable protective clothing, gloves and eye/face protection when mixing and using. Use in designated areas with adequate ventilation. Avoid breathing in vapours, mist or fumes. Keep containers closed when not in use. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous. Prevent the build up of mists or vapours in the work atmosphere. Keep containers sealed when not in use.
Conditions for safe storage, including any incompatibilities	Corrosive and combustible liquid for storage and handling purposes. Keep tightly closed in a dry, cool, well-ventilated area, out of direct sunlight. Provide a catch-tank in a bunded area. Avoid sparks, flames and other ignition sources. Store away from incompatible materials. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. 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. For information on the design of the store-room reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids and AS 3780-2008 The storage and handling of corrosive substances. Reference should also be made to all Local, State and Federal regulations.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standards have been established for this material by Safework, Australia. However, as with all chemicals, exposure should be kept to the lowest possible levels.
Biological Limit Values	No biological limit allocated.
Appropriate engineering controls	Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.
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 dependent upon actual airborne concentrations and the type of

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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, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. 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 Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection Suitable workwear should be worn to protect personal clothing, eg cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended.

9. Physical and chemical properties

Appearance	Clear pale yellow/colourless liquid
Odour	Amine
Decomposition Temperature	>200°C
Melting Point	10°C (Isophorone diamine)
Boiling Point	>200°C
Solubility in Water	Negligible
Specific Gravity	1.03 @25°C
pH	13 @20°C (1:1 in water) (approximate)
Vapour Pressure	0.15 mmHg (Isophorone diamine)
Vapour Density (Air=1)	Not available
Evaporation Rate	Not available
Odour Threshold	Not available
Viscosity	1000-1600 mPa.s (25°C)
Partition Coefficient: n-octanol/water	Not available
Flash Point	112°C
Flammability	Combustible
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available

10. Stability and reactivity

Reactivity	Reacts with incompatibles
Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames and other ignition sources.
Incompatible Materials	Incompatible with acids, halogens, halogenated organic compounds and oxidisers.

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Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon dioxide, carbon monoxide and oxides of nitrogen.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Toxicology Information	Toxicity data of this product and ingredient is listed below
Acute Toxicity - Oral	LD50 (oral, rat): >1,499 mg/kg Isophorone Diamine: LD50 (oral, rat): >1,030 mg/kg
Ingestion	Harmful if swallowed. Ingestion of this product may cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.
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.
Skin	Causes burns. Corrosive to the skin. Skin contact can cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction. Skin contact will cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction. Harmful in contact with skin. Prolonged or repeated skin contact may cause defatting leading to skin burns and skin sensitisation.
Eye	Eye contact can cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.
Respiratory sensitisation	May act as a sensitiser producing asthma-like (by inhalation) in sensitised individuals. Those sensitised may react to concentration levels that do not affect other, non sensitised, people.
Skin Sensitisation	May cause an allergic skin reaction. Testing demonstrated that Isophorone Diamine is a strong skin sensitiser (15 out of 15 test rabbits were sensitised)
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Carcinogenicity	Not considered to be a carcinogenic hazard.
Reproductive Toxicity	Not considered to be toxic to reproduction.
STOT-single exposure	Not expected to cause damage to organs.
STOT-repeated exposure	Not expected to cause damage to organs.
Aspiration Hazard	Not expected to be an aspiration hazard.

12. Ecological information

Ecotoxicity	Harmful to aquatic life with long lasting effects.
Persistence and degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Environmental Protection	Prevent this material entering waterways, drains and sewers.

13. Disposal considerations

Disposal Considerations	The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.
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14. Transport information

Transport Information	Road and Rail Transport: This material is classified as a Class 8 (Corrosive Substances) Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by
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Road and Rail (7th edition).
Class 8 Dangerous Goods are incompatible in a placard load with any of the following:
- Class 1, Explosives
- Division 4.3, Dangerous When Wet Substances
- Division 5.1, Oxidising Agents
- Division 5.2, Organic Peroxides
- Class 6, Toxic or Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
- Class 7, Radioactive Substances
and are incompatible with food and food packaging in any quantity.
Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis. Packing Group I and II acids and alkalis should be considered as strong.

Marine Transport (IMO/IMDG):
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
UN No.: 2735
Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS ISOPHORONEDIAMINE)
Class: 8
Packaging Group: III
EMS No.: F-A, S-B

Air Transport (ICAO/IATA):
Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
UN No: 2735
Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (Contains Isophoronediamine)
Class: 8
Packaging Group: III
Label: Corrosive
Packing Instruction: 852 (For passenger and cargo aircraft)
Packing Instruction: 856 (For cargo aircraft only)
2735

U.N. Number

UN proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. - (CONTAINS ISOPHORONE DIAMINE)

Transport hazard class(es) 8

Hazchem Code 2X

Packing Group III

EPG Number 8A1

IERG Number 36

IMDG Marine pollutant No

15. Regulatory information

Regulatory Information Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia
Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule S5

AICS (Australia) All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted.

16. Other Information



Safety Data Sheet

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Date of preparation or last revision of SDS SDS Reviewed: August 2012, Supersedes: September 2007

Contact Person/Point Technical Support: 1800 812 864

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