

Infosafe No™ LPWT5

Issue Date : August 2012

ISSUED by PARCHEMN

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** 0800 154 666 (available 24/7)  
**Recommended use of the chemical and restrictions on use** Curing agent for Durafloor HP epoxy resin coating system.  
**Other Information** Distributed in New Zealand by:  
Concrete Plus  
23 Watts Road  
Sockburn  
New Zealand  
Tel: (03) 343 0090  
Fax: (03) 343 0202

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.

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.

[www.parchem.co.nz](http://www.parchem.co.nz)

## 2. Hazard Identification

**GHS classification of the substance/mixture** Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.  
Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.  
6.1D - Substance that is acutely toxic in contact with skin.  
6.1D - Substance that is acutely toxic if swallowed.  
6.5B - Substance that is a contact sensitiser.  
8.2C - Substance that is corrosive to dermal tissue.  
8.3A - Substance that is corrosive to ocular tissue.  
9.1C - Substance that is harmful in the aquatic environment.  
9.2B - Substance that is ecotoxic in the soil environment.  
9.3C - Substance that is harmful to terrestrial vertebrates.

**Signal Word (s)** Danger

**Hazard Statement (s)** H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.  
H422 Toxic to the soil environment.  
H433 Harmful to terrestrial vertebrates.

**Pictogram (s)** Corrosion, Exclamation mark, Environment,

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**Precautionary statement – Prevention**

P102 Keep out of reach of children.  
P103 Read label before use.  
P260 Do not breathe mist, vapours or 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.  
P273 Avoid release to the environment.  
P280 Wear protective gloves, protective clothing and eye protection.

**Precautionary statement – Response**

GENERAL  
P101 If medical advice is needed, have product container or label at hand.  
P310 Immediately call a POISON CENTRE or doctor/physician.  
P391 Collect spillage.  
INGESTION  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P310 Immediately call a POISON CENTRE or doctor/physician.  
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.  
P310 Immediately call a POISON CENTRE or doctor/physician.  
SKIN  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P310 Immediately call a POISON CENTRE or doctor/physician.  
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**

**Precautionary statement – Disposal**

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details.

**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
	Isophoronediamine	2855-13-2	25-50 %
	Benzyl Alcohol	100-51-6	25-50 %
	Nonylphenol	25154-52-3	0-<2.5 %
	Ingredients determined not to be hazardous		To 100%

### 4. First-aid measures

<b>Inhalation</b>	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.
<b>Ingestion</b>	If swallowed, do NOT induce vomiting. Immediately wash out mouth and lips with water. Seek immediate medical attention.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Seek medical attention.
<b>Eye contact</b>	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information

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<b>First Aid Facilities</b>	Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention. Eye wash station, safety shower and normal washroom facilities.
<b>Advice to Doctor</b>	Treat symptomatically.
<b>Other Information</b>	For advice in an emergency, contact a Poisons Information Centre (Phone New Zealand 0800 764 766) or a doctor at once.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Foam, dry chemical powder, carbon dioxide, water spray or water fog.
<b>Hazards from Combustion Products</b>	Combustion products include oxides of carbon, oxides of nitrogen and ammonia gas.
<b>Specific hazards arising from the chemical</b>	Combustible liquid; will readily burn under fire conditions.
<b>Hazchem Code</b>	2X
<b>Decomposition Temp.</b>	>200°C
<b>Precautions in connection with Fire</b>	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed containers. If safe to do so, remove containers from path of fire.

## 6. Accidental release measures

<b>Emergency Procedures</b>	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

<b>Precautions for Safe Handling</b>	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.
<b>Conditions for safe storage, including any incompatibilities</b>	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

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<b>Occupational exposure limit values</b>	No exposure standards have been established for the mixture by the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, over-exposure to some industrial chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.
<b>Biological Limit Values</b>	No biological limit allocated.
<b>Appropriate engineering controls</b>	Provide sufficient ventilation to keep airborne levels as low as possible. Where natural ventilation is inadequate, a local exhaust ventilation system, drawing vapours/mists away from workers' breathing zone, is required.
<b>Respiratory Protection</b>	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour/mist filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
<b>Eye Protection</b>	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.
<b>Hand Protection</b>	Wear gloves of impervious material. e.g. laminated film, nitrile, neoprene. 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.
<b>Body Protection</b>	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

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

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**Flammable Limits - Upper** Not available

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions of storage and handling.
<b>Conditions to Avoid</b>	Heat, flames and other ignition sources.
<b>Incompatible Materials</b>	Incompatible with acids, halogens, halogenated organic compounds and oxidisers.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon dioxide, carbon monoxide and oxides of nitrogen.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Toxicology Information</b>	Toxicity data of this product and ingredient is listed below
<b>Acute Toxicity - Oral</b>	LD50 (oral, rat): >1,499 mg/kg Isophorone Diamine: LD50 (oral, rat): >1,030 mg/kg
<b>Ingestion</b>	Harmful and corrosive if swallowed. Ingestion of this product may cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.
<b>Inhalation</b>	Inhalation of vapour, mist or fumes can cause severe irritation and chemical burns to the respiratory tract. May cause bronchitis, pneumonia and pulmonary oedema.
<b>Skin</b>	Harmful and corrosive in contact with skin. Skin contact will cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction. Prolonged or repeated skin contact may cause dermatitis.
<b>Eye</b>	Corrosive to ocular tissue. Will cause severe irritation to the eyes. Eye contact with liquid can result in stinging, tearing, corneal burns and loss of vision.
<b>Respiratory sensitisation</b>	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.
<b>Skin Sensitisation</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Not considered to be a mutagenic hazard.
<b>Carcinogenicity</b>	Not considered to be a carcinogenic hazard.
<b>Reproductive Toxicity</b>	Not considered to be toxic to reproduction.
<b>STOT-single exposure</b>	Not expected to cause damage to organs.
<b>STOT-repeated exposure</b>	Not expected to cause damage to organs.
<b>Aspiration Hazard</b>	Not expected to be an aspiration hazard.

## 12. Ecological information

<b>Ecotoxicity</b>	Harmful to aquatic life with long lasting effects. Toxic to the soil environment. Harmful to terrestrial vertebrates.
<b>Persistence and degradability</b>	Not available
<b>Mobility</b>	Not available
<b>Bioaccumulative Potential</b>	Not available
<b>Environmental Protection</b>	Do not discharge the product into drains, waterways or sewers.

## 13. Disposal considerations

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## Disposal Considerations

### Product Disposal:

Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. It can be disposed by burning in an approved high temperature incineration facility; or alternatively, it can be reacted with the base component to enable it to cure to an inert solid that can be disposed in a licensed landfill facility. Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed.

Do not dispose into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected. In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further details regarding disposal can be obtained on the ERMA New Zealand website under specific group standards.

### Container Disposal:

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service.

Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous.

In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

## 14. Transport information

### Transport Information

#### Road and Rail Transport:

This material is classified as Dangerous Goods Division 6.1 - Toxic substance according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Must not be loaded in the same freight container or on the same vehicle with:

- Class 1, Explosives
- Food items

Note 1: Cyanides (Division 6.1) must not be loaded in the same freight container or on the same vehicle with acids (Class 8).

Must not be loaded with in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with:

- Division 5.1, Oxidizing substances
- Division 5.2, Organic peroxides

Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:

- Division 5.1, Oxidizing substances
- Division 5.2, Organic peroxides
- Food items

#### 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)

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<b>U.N. Number</b>	Class: 8 Packing Group: III Label: Corrosive Packing Instruction: 852 (For passenger and cargo aircraft) Packing Instruction: 856 (For cargo aircraft only) 2735
<b>UN proper shipping name</b>	AMINES, LIQUID, CORROSIVE, N.O.S. - (CONTAINS ISOPHORONEDIAMINE)
<b>Transport hazard class(es)</b>	8
<b>Hazchem Code</b>	2X
<b>Packing Group</b>	III
<b>EPG Number</b>	8A1
<b>IERG Number</b>	36
<b>IMDG Marine pollutant</b>	No

## 15. Regulatory information

<b>Regulatory Information</b>	Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. Group Standard: Surface Coatings and Colourants (Corrosive) Group Standard 2006
<b>HSNO Approval Number</b>	HSR002658

## 16. Other Information

<b>Date of preparation or last revision of SDS</b>	SDS Reviewed: August 2012, Supersedes: September 2007
<b>Contact Person/Point</b>	Technical Support: 1800 812 864 ...End Of MSDS...

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