

Infosafe No™ LPWT7

Issue Date : August 2012

ISSUED by PARCHEMN

Product Name : **DURAFLOOR HS HARDENER (STD)**

Classified as hazardous

## 1. Identification

**GHS Product Identifier** DURAFLOOR HS HARDENER (STD)

**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** Hardener component of epoxy resin flooring product.

**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.  
3.1C - Flammable liquids: medium hazard  
6.1D (Dermal) - Substance that is acutely toxic  
6.1D (Oral) - Substance that is acutely toxic  
6.1E (Inhalation - vapours, dusts or mists) - Substance that is acutely toxic  
6.5B - Substance that is a contact sensitiser  
6.7B - Substance that is a suspected human carcinogen  
6.8B - Substance that is suspected to be a human reproductive or developmental toxicant  
6.9B (Repeated exposure) - Substance that is harmful to human target organs or systems  
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)** H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H333 May be harmful if inhaled.  
H314 Causes severe skin burns and eye damage.

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H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer  
 H361 Suspected of damaging fertility or the unborn child  
 H373 May cause damage to organs through prolonged or repeated exposure by ingestion and inhalation  
 H412 Harmful to aquatic life with long lasting effects.  
 H422 Toxic to the soil environment.  
 H433 Harmful to terrestrial vertebrates.  
 Flame, Corrosion, Health hazard, Exclamation mark, Environment,

**Pictogram (s)**



**Precautionary statement – Prevention**

P102 Keep out of reach of children.  
 P103 Read label before use.  
 P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 Wash skin 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. -This statement does not apply where this is the intended use.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement – Response**

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.  
 P370+P378: In case of fire: Use foam, carbon dioxide or dry chemical powder to extinguish.  
 P391 Collect spillage.  
 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.

**Precautionary statement – Storage**

P405 Store locked up.  
 P403+P235 Store in a well-ventilated place. Keep cool.

**Precautionary statement – Disposal**

P501 In the case of a substance that is in compliance with a HSN0 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

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avoided. See Section 13 for disposal details.

### 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Benzyl alcohol	100-51-6	15-40 %
	Isophoronediamine	2855-13-2	15-40 %
	Xylene	1330-20-7	10-<30 %
	Ethylbenzene	100-41-4	0-<10 %
	Nonylphenol	25154-52-3	0-<2.5 %
	Other ingredients determined not to be hazardous	Not required	Balance

### 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>	Do not induce vomiting. Wash out mouth thoroughly 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. Ensure contaminated clothing is washed before re-use or discard. Seek immediate 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 Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.
<b>First Aid Facilities</b>	Eye wash, safety shower and normal washroom facilities.
<b>Advice to Doctor</b>	Treat symptomatically.
<b>Other Information</b>	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

<b>Suitable extinguishing media</b>	Use carbon dioxide, dry chemical, foam or water mist.
<b>Hazards from Combustion Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes including oxides of nitrogen, unburnt hydrocarbons, carbon monoxide and carbon dioxide.
<b>Specific hazards arising from the chemical</b>	Flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.
<b>Hazchem Code</b>	•2W
<b>Precautions in connection with Fire</b>	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

<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 flammable 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,
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**Conditions for safe storage, including any incompatibilities**

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.

Corrosive and flammable 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 value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH). However, over-exposure to any chemical may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels. The available exposure limits for ingredients are listed below:

New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:

Substance	TWA		STEL		NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Xylene	50	217	-	-	
Ethylbenzene	100	434	125	543	

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

**Biological Limit Values**

Biological Exposure Indice (BEI) from American Conference of Industrial Hygienists (ACGIH) for ingredients are as follows:

Determinant	Sampling Time	Biological Exposure
Indice (BEI)		
XYLENE [1330-20-7]		
Methylhippuric acids in urine	End of shift	1.5mg/g creatinine
Ethylbenzene (100-41-4)		
Sum of mandelic acid and phenylglyoxylic acid in urine	End of shift at end of work week	0.7g/g creatinine

**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 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

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<b>Hand Protection</b>	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>Body Protection</b>	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. 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 liquid
<b>Odour</b>	Amine
<b>Melting Point</b>	10°C (Isophorone diamine)
<b>Boiling Point</b>	Not available
<b>Solubility in Water</b>	Insoluble
<b>Specific Gravity</b>	0.97 @25°C
<b>pH</b>	Not available
<b>Vapour Pressure</b>	0.7 kPa (xylene)
<b>Vapour Density (Air=1)</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Odour Threshold</b>	Not available
<b>Viscosity</b>	Not available
<b>Volatile Component</b>	45%
<b>Partition Coefficient: n-octanol/water</b>	Not available
<b>Flash Point</b>	26°C
<b>Flammability</b>	Flammable
<b>Auto-Ignition Temperature</b>	Not available
<b>Flammable Limits - Lower</b>	Not available
<b>Flammable Limits - Upper</b>	Not available

## 10. Stability and reactivity

<b>Reactivity</b>	Reacts with incompatibles
<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Heat, flames and other ignition sources.
<b>Incompatible Materials</b>	Isocyanates, epoxies and strong oxidisers.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including unburnt hydrocarbons, carbon dioxide, carbon monoxide and oxides of nitrogen.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Toxicology Information</b>	No toxicity data is available for this product.
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<b>Ingestion</b>	Harmful if swallowed. Ingestion of this product may cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.
<b>Inhalation</b>	May be 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.
<b>Skin</b>	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.
<b>Eye</b>	Eye contact can cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.
<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. Testing demonstrated that Isophorone Diamine is a strong skin sensitiser (15 out of 15 test rabbits were sensitised)
<b>Germ cell mutagenicity</b>	Not considered to be a mutagenic hazard.
<b>Carcinogenicity</b>	Suspected of causing cancer. Ethylbenzene is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC).
<b>Reproductive Toxicity</b>	Suspected of damaging fertility or the unborn child
<b>STOT-single exposure</b>	Not expected to cause damage to organs.
<b>STOT-repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure by inhalation & ingestion.
<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>	Prevent this material entering waterways, drains and sewers.

## 13. Disposal considerations

<b>Disposal Considerations</b>	<p><b>Product Disposal:</b> 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. In this specific case the product is a combustible substance and therefore can be sent to an approved high temperature incineration plant for disposal. Do not dispose directly into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected. 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 EPA New Zealand website under specific group standards. 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.</p> <p><b>Container Disposal:</b> The container or packaging must be cleaned and rendered incapable of holding</p>
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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 Class 8 - Corrosive Substances and subsidiary Class 3 - Flammable Liquids 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
- Division 2.1, Flammable gases
- Division 2.3, Toxic gases
- Division 4.2, Spontaneously combustible substances
- Division 5.1, Oxidising substances
- Division 5.2, Organic peroxides
- Class 7, Radioactive materials unless specifically exempted
- 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).

Note 2: 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.

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 4.3, Dangerous when wet substances

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 4.2, Spontaneously combustible substances
- Division 4.3, Dangerous when wet substances
- Division 5.1, Oxidising substances

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.: 2734

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (CONTAINS ISOPHORONEDIAMINE AND XYLENE)

Class: 8

Sub. Risk: 3

Packaging Group: II

EMS No.: F-E, S-C

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: 2734

Proper Shipping Name: Amines, liquid, corrosive, flammable, n.o.s. (Contains Isophoronediamine and Xylene)

Class: 8

Sub Risk: 3

Packing Group: II

Label: Corrosive & Flammable liquid

Packing Instruction: 851 (For passenger and cargo aircraft)

Packing Instruction: 855 (For cargo aircraft only)

2734

### U.N. Number

### UN proper shipping name

AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. - (CONTAINS ISOPHORONE DIAMINE & XYLENE)

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**Transport hazard class(es)** 8  
**Sub.Risk** 3  
**Hazchem Code** •2W  
**Packing Group** II  
**EPG Number** 8B1  
**IERG Number** 18  
**IMDG Marine pollutant** No

## 15. Regulatory information

**Regulatory Information** Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.  
Group Standard:  
Surface Coatings and Colourants (Flammable, Corrosive, Toxic [6.7]) Group Standard  
**HSNO Approval Number** HSR002664

## 16. Other Information

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

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