

Infosafe No™ LPWT6	Issue Date : August 2012	ISSUED by PARCHEMN
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Product Name : **DURAFLOOR HS BASE**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	DURAFLOOR HS BASE
<b>Company Name</b>	Parchem Construction Supplies Pty Ltd (ABN 80 069 961 968)
<b>Address</b>	7 Lucca Road Wyong NSW 2259 Australia
<b>Telephone/Fax Number</b>	Tel: 02 4350 5000 Fax: 02 4351 2024
<b>Emergency phone number</b>	0800 154 666 (available 24/7)
<b>Recommended use of the chemical and restrictions on use</b>	Base component for epoxy resin floor.
<b>Other Information</b>	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

<b>GHS classification of the substance/mixture</b>	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 6.3B - Substance that is mildly irritating to the skin 6.4A - Substance that is irritating to the eyes 6.5B - Substance that is a contact sensitiser 6.9B (Repeated exposure) - Substance that is harmful to human target organs or systems 9.1B - Substance that is toxic in the aquatic environment
<b>Signal Word (s)</b>	Warning
<b>Hazard Statement (s)</b>	H226 Flammable liquid and vapour. H316 Causes mild skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure by inhalation, ingestion & skin contact H411 Toxic to aquatic life with long lasting effects.
<b>Pictogram (s)</b>	Flame, Exclamation mark, Environment, Health hazard

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**Precautionary statement – Prevention**

P103 Read label before use  
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.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/eye protection/face protection.

**Precautionary statement – Response**

GENERAL:  
P314 Get medical advice/attention if you feel unwell.  
P370+P378: In case of fire: Use foam, carbon dioxide or dry chemical powder to extinguish.  
P391: Collect spillage.

SKIN:

P302+P352: IF ON SKIN: Wash with plenty of water.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P362+P364: Take off contaminated clothing and wash it before reuse.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

EYES:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P403+P235: Store in a well-ventilated place. Keep cool.

**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.

### 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Crystalline Silica (Quartz)	14808-60-7	30-60 %
	Bisphenol A- (epichlorohydrin), epoxy resin, reaction product	25068-38-6	10-30 %
	Xylene	1330-20-7	0-<10 %
	Solvent naphtha (petroleum), light aromatic	64742-95-6	0-<10 %
	Ingredients determined not to be hazardous.		Balance

### 4. First-aid measures

**Inhalation** If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.  
**Ingestion** Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.  
**Skin** Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. Seek medical attention.

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<b>Eye contact</b>	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek 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>Unsuitable Extinguishing Media</b>	DO NOT USE water jets.
<b>Hazards from Combustion Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
<b>Specific hazards arising from the chemical Hazchem Code</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. •3Y
<b>Precautions in connection with Fire</b>	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

## 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>	Avoid contact with skin and eyes. Wear overalls, impervious gloves and safety glasses. Use in designated areas with adequate ventilation. Use approved flammable liquid storage containers in the work area. Prevent release of vapours and mists into workplace air. Keep containers closed when not in use. Take precautionary measures against static discharges. Keep material away from sparks, flames and other ignition sources. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. 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 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 applicable local and national regulations.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	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
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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		NOTICES
	ppm	mg/m <sup>3</sup>	
Quartz (crystalline silica)	-	0.2	A2 Carcinogen
Xylene	50	217	

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.

**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
	shift of work week	

**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 flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 60079.10.1:2009 Explosive atmospheres - Classification of areas - Explosive gas atmospheres, for further information concerning ventilation requirements.

**Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour 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.

**Eye Protection**

Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection**

Wear gloves of impervious material, such as laminated film or nitrile. 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 protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

**9. Physical and chemical properties**

<b>Appearance</b>	Paste
<b>Odour</b>	Slight aromatic odour.
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	>200°C
<b>Solubility in Water</b>	Negligible
<b>Specific Gravity</b>	1.80 (25°C)
<b>pH</b>	Not available
<b>Vapour Pressure</b>	8-12 hPa at 20°C (xylene)
<b>Vapour Density (Air=1)</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Odour Threshold</b>	Not available

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<b>Viscosity</b>	Not available
<b>Volatile Component</b>	25%
<b>Partition Coefficient: n-octanol/water</b>	Not available
<b>Flash Point</b>	43°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 of storage and handling.
<b>Conditions to Avoid</b>	Heat, flames and other ignition sources.
<b>Incompatible Materials</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Toxicology Information</b>	No toxicology data available for this product.
<b>Ingestion</b>	May cause irritation to the mouth, throat, esophagus and stomach with symptoms of nausea and vomiting.
<b>Inhalation</b>	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
<b>Skin</b>	Irritating to skin. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. May cause an allergic skin reaction.
<b>Eye</b>	Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
<b>Respiratory sensitisation</b>	Not expected to be a respiratory sensitiser.
<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. However, crystalline silica has been classified by International Agency for Research on Cancer (IARC) as carcinogenic to humans by inhalation (Group 1).
<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>	May cause damage to organs through prolonged or repeated exposure by inhalation, ingestion & skin contact. Ingestion of large quantities may depress the central nervous system.
<b>Aspiration Hazard</b>	Not expected to be an aspiration hazard.
<b>Other Information</b>	This product contains crystalline silica (quartz). No exposure to free respirable crystalline silica is anticipated during normal use of this product as silica is bound in the paste. It should be noted, however, that respirable crystalline silica has been listed as a Group 1 human carcinogen by the IARC.

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Inhalation of respirable silica may cause cancer, silicosis or other serious delayed lung injury. Grinding or machining of coated materials may release silica. Use approved dust respirator when grinding, sanding or machining the dried items.

## 12. Ecological information

<b>Ecotoxicity</b>	Toxic to aquatic life with long lasting effects.
<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 this material into waterways, drains and sewers.
<b>Acute Toxicity - Fish</b>	Xylene (mixed isomers): LC50 (Fathead minnow): 13.4 mg/L/96h

## 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 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.</p>
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## 14. Transport information

<b>Transport Information</b>	<p>This material is classified as Dangerous Goods Class 3 - Flammable Liquid 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:</p> <ul style="list-style-type: none"><li>- Class 1, Explosives</li><li>- Division 2.1, Flammable gases</li><li>- Division 2.3, Toxic gases</li><li>- Division 4.2, Spontaneously combustible substances</li><li>- Division 5.1, Oxidising substances</li><li>- Division 5.2, Organic peroxides or</li><li>- Class 7, Radioactive materials unless specifically exempted.</li></ul> <p>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:</p> <ul style="list-style-type: none"><li>- Division 4.3, Dangerous when wet substances</li></ul> <p>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:</p>
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- Division 4.2, Spontaneously combustible substances
- Division 4.3, Dangerous when wet substances
- Division 5.1, Oxidising substances
- Division 5.2, Organic peroxides

**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.: 1866

Proper Shipping Name: RESIN SOLUTION

DG Class: 3

Packaging Group: III

EMS No.: F-E, S-E

Special provisions: 223, 955

**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: 1866

Proper Shipping Name: : Resin solution

Class: 3

Packing Group: III

Label: Miscellaneous

Packing Instruction: 355 (For passenger and cargo aircraft)

Packing Instruction: 366 (For cargo aircraft only)

Special provisions: A3

1866

**U.N. Number**

**UN proper shipping name**

RESIN SOLUTION

**Transport hazard class(es)**

3

**Hazchem Code**

•3Y

**Packing Group**

III

**EPG Number**

3A1

**IERG Number**

14

**IMDG Marine pollutant**

Yes

## 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) Group Standard 2006

**HSNO Approval Number**

HSR002662

## 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

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