

Infosafe No™ LPT4H	Issue Date : July 2013	ISSUED by PARCHEMC
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Product Name : **DURAFLOOR FC HARDENER**

Classified as hazardous

1. Identification

GHS Product Identifier	DURAFLOOR FC 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	Hardener component for epoxy flooring.
Other Information	<p>This SDS 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 Skin Corrosion/irritation, Category 1 Serious eye damage/irritation, Category 1 Skin Sensitiser, Category 1 Toxic to Reproduction, Category 2 Hazardous to the Aquatic Environment - Long-Term Hazard, Category 2</p>
Signal Word (s)	Danger
Hazard Statement (s)	<p>H302 Harmful if swallowed.</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>H361 Suspected of damaging fertility or the unborn child</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>
Pictogram (s)	Corrosion, Exclamation mark, Environment, Health hazard



Precautionary statement – Prevention	<p>P102 Keep out of reach of children.</p> <p>P103 Read label before use.</p> <p>P104 Read Safety Data Sheet before use.</p> <p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p>
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Precautionary statement – Response

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.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P101 If medical advice is needed, have product container or label at hand.
 P391 Collect spillage.
 INGESTION.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
 P310 Immediately call a POISON CENTER or doctor/physician.
 INHALATION
 P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P310 Immediately call a POISON CENTER or doctor/physician.
 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 CENTER 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 CENTER 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 Dispose of contents/container to an approved waste disposal plant

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Trimethylhexane-1,6-Diamine	25620-58-0	>25-100 %
	p-tert-Butylphenol	98-54-4	30-60 %
	1,3-Benzenedimethanamine	1477-55-0	10-<30 %
	Nonylphenol	25154-52-3	0-<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

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Suitable extinguishing media	Use carbon dioxide, dry chemical, foam or water mist.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide, carbon dioxide, oxides of nitrogen, ammonia gas, nitric acid, nitrosamines and aldehydes.
Specific hazards arising from the chemical	Combustible liquid. This product will readily burn under fire conditions.
Hazchem Code	2X
Decomposition Temp.	>200°C
Precautions in connection with Fire	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

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 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.
Storage Regulations	Classified as a Class C1 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS1940.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure value assigned for this material by Safe Work, Australia. However, the available exposure limits for ingredients are listed below: Safe Work, Australia Exposure Standards: <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Substance</td> <td style="text-align: right;">TWA</td> <td style="text-align: right;">mg/m³</td> </tr> <tr> <td>1,3-Benzenedimethanamine</td> <td style="text-align: right;">0.1</td> <td style="text-align: right;">(Peak)</td> </tr> </table> <p>TWA (Time Weighted Average): The average airborne concentration of a</p>	Substance	TWA	mg/m ³	1,3-Benzenedimethanamine	0.1	(Peak)
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1,3-Benzenedimethanamine	0.1	(Peak)					

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Biological Limit Values	particular substance when calculated over a normal eight-hour working day, for a five-day week. Peak Limitation: A ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes. 'Sk' Notice: Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur. 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 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	Amber mobile liquid.
Colour	Amber
Odour	Fishy amine
Decomposition Temperature	>200°C
Melting Point	Not available
Boiling Point	230°C (100kPa)
Solubility in Water	<1%
Specific Gravity	0.980 (23°C)
pH	11.2 (20°C)
Vapour Pressure	<1.36kPa (21°C)
Vapour Density (Air=1)	Not available
Evaporation Rate	Not available
Odour Threshold	Not available
Viscosity	150-300 mPa.s (25°C)
Partition Coefficient: n-octanol/water	Not available
Flash Point	>93°C (Pensky Martens Closed Cup)

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Flammability	Not flammable
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available

10. Stability and reactivity

Reactivity	Will react with incompatibles.
Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Heat, flames and other sources of ignition.
Incompatible Materials	Incompatible with oxidising agents, strong acids, zinc, tin aluminium and their alloys, and epoxy resins except under controlled conditions. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Materials reactive with hydroxyl compounds. Nitrites, nitrosating agents. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling crating a hazard due to splashing or splattering of hot material.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon dioxide, carbon monoxide, oxides of nitrogen, amine compounds and ammonia.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Toxicology Information	No toxicity data available for this material.
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	Corrosive in contact with skin. Skin contact will cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction. May cause an allergic skin reaction. Prolonged or repeated skin contact may cause dermatitis.
Eye	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.
Respiratory sensitisation	Not expected to be a respiratory sensitiser
Skin Sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Carcinogenicity	Not considered to be a carcinogenic hazard.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child. This product is classified as Toxic to reproduction Category 2.
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.
Other Information	Repeated and/or prolonged exposure may cause allergic reaction/sensitisation.

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Repeated and/or prolonged exposures may result in: adverse respiratory effects (such as cough, tightness of chest or shortness of breath), adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash, irritation or corrosion).

12. Ecological information

Ecotoxicity	Toxic 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	Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.
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14. Transport information

Transport Information	<p>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 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.</p> <p>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 1,3-Benzenedimethanamine & Trimethylhexane-1,6-Diamine) Packaging Group: III EMS No.: F-A, S-B</p> <p>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 1,3-Benzenedimethanamine & Trimethylhexane-1,6-Diamine) Class: 8 Packaging Group: III Label: Corrosive Packing Instruction: 852 (For passenger and cargo aircraft) Packing Instruction: 856 (For cargo aircraft only) Special provisions: A3, A803</p>
U.N. Number	2735

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UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. - (Contains 1,3-Benzenedimethanamine & Trimethylhexane-1,6-Diamine)
Transport hazard class(es)	8
Hazchem Code	2X
Packing Group	III
EPG Number	8A1
IERG Number	36
IMDG Marine pollutant	Yes

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

Date of preparation or last revision of SDS	SDS reviewed: July 2013, Supersedes: May 2009
Literature References	Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice. Standard for the Uniform Scheduling of Medicines and Poisons. Australian Code for the Transport of Dangerous Goods by Road & Rail. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Workplace exposure standards for airborne contaminants, Safe work Australia. American Conference of Industrial Hygienists (ACGIH). Globally Harmonised System of classification and labelling of chemicals.
Contact Person/Point	Technical Support: 1800 812 864 ...End Of MSDS...

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