



Infosafe No™ LPXJJ Issue Date : August 2008 ISSUED by PARCHEMN

Product Name : **MASTERSHIELD M90 HARDENER**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** MASTERSHIELD M90 HARDENER  
**Company Name** Parchem Construction Supplies Pty Ltd (ABN 80 069 961 968)  
**Address** 7 Lucca Road Wyong  
NSW 2259 Australia  
**Emergency Tel.** 0800 154 666 (available 24/7)  
**Telephone/Fax Number** Tel: 02 4350 5000  
Fax: 02 4351 2024  
**Recommended Use** Hardener component of epoxy floor 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. HAZARDS IDENTIFICATION

**Hazard Classification** 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 5433:2007 Transport of Dangerous Goods on Land.

**HSNO Classification:**

- 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.

**Hazard Statement Codes:**

- 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.
- H318 Causes serious eye damage.
- H412 Harmful to aquatic life with long lasting effects.
- H422 Toxic to the soil environment.
- H433 Harmful to terrestrial vertebrates.

**Precautionary Statement Codes - Prevention:**

- P102 Keep out of reach of children. - This statement applies only where the substance is available to the general public.

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P103 Read label before use. - This statement applies only where the substance is available to the general public.  
 P104 Read Safety Data Sheet 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 Codes - 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.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P310 Immediately call a POISON CENTRE or doctor/physician.  
 P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
 P310 Immediately call a POISON CENTRE or doctor/physician.  
 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.  
 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.  
 P363 Wash contaminated clothing before reuse.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P391 Collect spillage.

**Precautionary Statement Codes - Storage:**

P405 Store locked up.

**Precautionary Statement Codes - 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 avoided.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Isophorone diamine	2855-13-2	25-50 %
	Benzoyl 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</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 station, safety shower and normal washroom facilities.

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Product Name : **MASTERSHIELD M90 HARDENER****Advice to Doctor** Treat symptomatically.**Other Information** 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

**Suitable Extinguishing Media** Foam, dry chemical powder, carbon dioxide, water spray or water fog.**Hazards from Combustion Products** Combustion products include oxides of carbon, oxides of nitrogen and ammonia gas.**Specific Hazards** Combustible liquid; will readily burn under fire conditions.**Hazchem Code** 3X**Precautions in connection with Fire** 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

**Emergency Procedures** Increase ventilation. Evacuate all unprotected personnel. Wear protective clothing and equipment to prevent exposure. If possible contain the spill. Take up with non-combustible, inert absorbent material. Prevent run off into drains and waterways. Use clean non-sparking tools to collect the material and place into suitable, labelled containers. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations. Dispose of waste according to applicable local and national regulations.

## 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.**Conditions for Safe Storage** Store in a cool, dry well-ventilated area away from heat, sources of ignition, oxidising agents, foodstuffs, and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.**Storage Regulations** Classified as a Class C1 (COMBUSTIBLE LIQUID) for the purposes of storage and handling, in accordance with the requirements of AS1940. This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards** 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.**Biological Limit Values** No biological limit allocated.**Engineering Controls** 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.**Respiratory Protection** 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.**Eye Protection** Safety glasses with side shields, goggles or full-face shield as appropriate

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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 impervious gloves conforming to AS/NZS 2161: Occupational protective gloves. Laminated film gloves offer good protection for prolonged contact with the liquid. Consult glove suppliers to determine other appropriate glove types and, preferably, test gloves before use.

**Body Protection** Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Clear, light yellow liquid with a hydrocarbon like odour.

**Melting Point** Not available

**Boiling Point** 205°C

**Solubility in Water** Slightly soluble

**Specific Gravity** 1.0 at 23°C

**pH Value** 11 at 20°C

**Vapour Pressure** 0.1 hPa

**Vapour Density (Air=1)** Not available

**Viscosity** 300 mPa.s

**Flash Point** >100°C

**Flammability** Combustible liquid.

**Auto-Ignition Temperature** 435°C

**Flammable Limits - Lower** 1.3 Vol%

**Flammable Limits - Upper** 13.0 Vol%

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions of storage and handling.

**Incompatible Materials** Strong oxidising agents.

**Hazardous Decomposition Products** Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon dioxide, carbon monoxide, ammonia and oxides of nitrogen.

**Hazardous Polymerization** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Toxicology Information** No toxicity data are available for this specific product. The available data for the ingredients are as follows:  
For Isophorone diamine:  
LD50 (Oral, Rat): >1,030 mg/kg  
Testing demonstrated that isophorone diamine is a strong skin sensitiser (15 out of 15 test rabbit were sensitised).  
For Benzyl alcohol:  
LD50 (Oral, Rat): 1230 mg/kg  
LD50 (Dermal, Rabbit): 2000 mg/kg

**Inhalation** Inhalation of vapour, mist or fumes can cause severe irritation and chemical burns to the respiratory tract. May cause bronchitis, pneumonia and pulmonary oedema.

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<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. Subsequent to ingestion or vomiting, small amounts of liquid aspirated into the respiratory system may cause severe pulmonary injury that may lead to death.
<b>Skin</b>	Harmful and corrosive in contact with skin. This product may cause sensitisation in some individuals. Skin contact will cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction.
<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>Chronic Effects</b>	May act as a sensitiser producing asthma-like (inhalation) or allergic skin reaction symptoms in sensitised individuals. Prolonged or repeated skin contact may cause dermatitis. Those sensitised may react to concentration levels that do not affect other, non sensitised, people.

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## 12. ECOLOGICAL INFORMATION

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

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## 13. DISPOSAL CONSIDERATIONS

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<b>Disposal Considerations</b>	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 national and local regulations.
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## 14. TRANSPORT INFORMATION

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<b>Transport Information</b>	<p>Road and Rail Transport:</p> <p>This material is classified as a Class 8 - Corrosive Substance according to NZS 5433:2007 Transport of Dangerous Goods on Land.</p> <p>Class 8 substances 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>- (Class 5.1) Oxidising substances</li><li>- (Class 5.2) Organic peroxides</li><li>- (Class 7) Radioactive materials unless specifically exempted</li></ul> <p>and are incompatible with food and food packaging in any quantity.</p> <p>Note 1; Cyanides (Class 6.1) must not be loaded in the same freight container or on the same vehicle with acids (Class 8).</p> <p>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.</p> <p>Class 8 substances 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>- (Class 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> <ul style="list-style-type: none"><li>- (Class 4.3) Dangerous when wet substances</li><li>- (Class 5.1) Oxidising substances</li><li>- (Class 5.2) Organic peroxides</li></ul> <p>and are incompatible with food and food packaging in any quantity.</p> <p>Marine Transport (IMO/IMDG):</p> <p>Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.</p>
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UN No.: 2735  
Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS ISOPHORONEDIAMINE AND NONYLPHENOL)  
Class: 8  
Packaging Group: III  
EMS No.: F-A, S-B  
IMDG Marine Pollutant: No

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 and Nonylphenol)  
Class: 8  
Packing Group: III  
Label: Corrosive  
Packing Instruction: 818 (For passenger and cargo aircraft)  
Packing Instruction: 820 (For cargo aircraft only)  
2735

**U.N. Number**

**Proper Shipping Name** AMINES, LIQUID, CORROSIVE, N.O.S. - (CONTAINS ISOPHORONEDIAMINE AND NONYLPHENOL)  
**DG Class** 8  
**Hazchem Code** 3X  
**Packaging Method** 3.8.8  
**Packing Group** III  
**EPG Number** 8A1  
**IERG Number** 36

## 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 (Corrosive) Group Standard 2006  
HSNO Approval Number: HSR002658.

## 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS** MSDS Created: August 2008.  
**Contact Person/Point** Technical Support: 1800 812 864  
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