

# Material Safety Data Sheet

## SUREFLOOR HS (PART A) (RANGE)

**Infosafe No.** 1HLNR **Version No.** **ISSUED** May **Status** ISSUED  
**Date** 2010

**Classified as hazardous according to criteria of NOHSC**

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### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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**Product Name**

SUREFLOOR HS (PART A) (RANGE)

**Product Code**

Various

**Company Name**

Con-Treat Pty Ltd

**Address** Australia:

Unit 11 80-82  
Township Drv,  
Burleigh Heads,  
QLD 4220

**Emergency Tel.**

Australia: 1800 022 037

**Telephone/Fax Number**

Telephone: Australia: 1300 044 625

**Email**

info@con-treat.com.au

**Recommended Use**

Concrete protection.

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### 2. HAZARDS IDENTIFICATION

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**Hazard Classification**

Australia:

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

New Zealand:

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 NZS 5433:2007 Transport of Dangerous Goods on Land.

HSNO Classification:

- 3.1C - Flammable Liquid: Medium Hazard.
- 6.1D - Substance that is acutely toxic (oral).
- 6.1D - Substance that is acutely toxic (dermal).
- 6.1D - Substance that is acutely toxic (inhalation).
- 6.3A - Substance that is irritating to the skin.
- 6.4A - Substance that is irritating to the eye.
- 6.5B - Substance that is a contact sensitiser.
- 6.8B - Substance that is a suspected human reproductive or developmental toxicant.
- 6.9B - Substance that is harmful to human target organs or systems (oral).
- 6.9B - Substance that is harmful to human target organs or systems (inhalation).
- 9.1B - Substance that is toxic in the aquatic environment.

Hazard Statement Codes:

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H320 Causes eye irritation.
- H317 May cause an allergic skin reaction.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure by swallowing.
- H373 May cause damage to organs through prolonged or repeated exposure by inhalation.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary Statement Codes - Prevention:

- P102 Keep out of reach of children.
- 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.
- 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 and hot surfaces. No smoking.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical, ventilating and lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust, mist or vapours.
- 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 and eye protection.

Precautionary Statement Codes - Response:

GENERAL:

- 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.
- P308+P313 If exposed or concerned: Get medical advice/ attention.
- P391 Collect spillage.
- In case of fire: Use water spray, water fog, foam, carbon dioxide or dry chemical powder.

INGESTION:

- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P330 Rinse mouth.
- P331 Do NOT induce vomiting.

INHALATION:

- P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P331 Do NOT induce vomiting.

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.
- P337+P313 If eye irritation persists: Get medical advice/attention.

SKIN:

- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P303+P361+P353 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P363 Wash contaminated clothing before reuse.

Precautionary Statement Codes - Storage:

P405 Store locked up.

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

Precautionary Statement Codes - 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.

#### Risk Phrase(s)

R10 Flammable.

R43 May cause sensitization by skin contact.

R36/38 Irritating to eyes and skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety Phrase(s)

S16 Keep away from sources of ignition - No smoking.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S38 In case of insufficient ventilation, wear suitable respiratory equipment.

S24/25 Avoid contact with skin and eyes.

S37/39 Wear suitable gloves and eye/face protection.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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#### Ingredients

Name	CAS	EINECS	Proportion
Bisphenol A epoxy resin	25085-99-8		30-60 %
Silica, Crystalline Quartz	14808-60-7	238-878-4	30-60 %
Alkyl glycidyl ether	68609-97-2	271-846-8	5-15 %
Xylene	1330-20-7	215-535-7	1-10 %
Ingredients determined not to be hazardous.			To 100%

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### 4. FIRST AID MEASURES

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#### Inhalation

Remove the source of contamination or move the victim to fresh air. Ensure airways are clear. Keep at rest. If the affected person experiences nausea, headache, dizziness, difficulty in breathing seek immediate medical attention.

#### Ingestion

Do not induce vomiting. Immediately rinse mouth thoroughly with copious amounts of water. Seek medical attention.

#### Skin

Remove all contaminated clothing. Wash with copious amounts of water and soap. If irritation develops and persists seek medical attention.

#### Eye

If contact with the eyes occurs, wash with water for several minutes, holding eyelids open. Take care not to rinse contaminated water into the non-affected eye. Seek medical attention.

#### First Aid Facilities

Eye wash station, safety shower and normal washroom facilities.

**Advice to Doctor**

Treat symptomatically.

**Other Information**

For advice, contact the Poisons Information Centre (Australia 13 11 26; New Zealand 0800 POISON / 0800 764 766), or a doctor at once.

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## 5. FIRE FIGHTING MEASURES

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**Suitable Extinguishing Media**

Water spray or fog, foam, carbon dioxide or dry chemical powder.

**Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide and carbon dioxide.

**Specific Hazards**

Flammable liquid and vapour. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke. Vapour may travel a considerable distance to source of ignition and flash back. Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire.

**Hazchem Code**

•3Y

**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.

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## 6. ACCIDENTAL RELEASE MEASURES

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**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 authorities and EPA in accordance with local regulations.

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## 7. HANDLING AND STORAGE

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**Precautions for Safe Handling**

Use with adequate ventilation. Wear appropriate protective clothing and equipment to prevent inhalation exposure, and skin and eye contact. Prevent the build-up of vapours or mists in the working atmosphere. Open containers cautiously as contents may be under pressure. Keep containers closed when not in use.

**Conditions for Safe Storage**

Store in a cool, dry, well-ventilated area. Store away from incompatible materials such as strong oxidising agents.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**National Exposure Standards**

No exposure standards have been established for this material by the National Occupational Health & Safety Commission (NOHSC), Australia or the Occupational Safety and Health

Service (OSH) of the New Zealand Department of Labour. However, over-exposure to some industrial chemicals may result in aggravation of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels. The available exposure limits on the ingredients as assigned by both authorities, are as follows:

National Occupational Health And Safety Commission (NOHSC), Australia exposure standards:  
Substance TWA STEL NOTICE

ppm mg/m<sup>3</sup> ppm mg/m<sup>3</sup>

Xylene 80 350 150 655 -

Silica (quartz) - 0.1 - - -

New Zealand Occupational Safety and Health Service (OSH) Workplace exposure standards:

Substance TWA STEL

ppm mg/m<sup>3</sup> ppm mg/m<sup>3</sup>

Xylene 50 217 - - -

Silica (quartz) - 0.1 - - -

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**

No biological limit allocated.

### **Engineering Controls**

Provide sufficient ventilation to keep airborne concentrations below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system should be used.

### **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 laminated film, nitrile rubber or other suitable gloves conforming to AS/NZS 2161: Occupational protective gloves. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.

### **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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### **Appearance**

Coloured viscous liquid.

### **Melting Point**

Not available

### **Boiling Point**

Not available

**Solubility in Water**

Insoluble

**Specific Gravity**

1.20-1.40

**pH Value**

Not applicable

**Vapour Pressure**

Not available

**Colour**

Depends upon the pigments used.

**Flash Point**

&gt;27°C (Closed Cup)

**Flammability**

Flammable liquid.

**Auto-Ignition Temperature**

Not available

**Flammable Limits - Lower**

1.1%

**Flammable Limits - Upper**

7.0%

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## 10. STABILITY AND REACTIVITY

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**Chemical Stability**

Stable under normal conditions of handling and storage.

**Incompatible Materials**

Strong oxidising agents, strong acids and strong bases.

**Hazardous Decomposition Products**

Carbon monoxide and carbon dioxide.

**Hazardous Polymerization**

Will not occur if uncontaminated; will occur with evolution of heat, if brought into contact with amines at elevated temperatures.

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## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information**

The available data for the ingredients are as follows:

For Xylene:

D50 (Oral, Rat): 4300 mg/kg

LC50 (Inhalation, Rat): 5000 ppm/4h

**Inhalation**

Inhalation of high concentrations of vapour or mist may cause pulmonary irritation, coughing, nausea and central nervous system depression.

**Ingestion**

Swallowing may result in nausea, vomiting and central nervous system depression. If the victim is uncoordinated there is a likelihood of vomit entering the lungs and causing subsequent complications, such as potentially lethal chemical pneumonitis.

**Skin**

Irritating in contact with skin. May also cause sensitisation by skin contact.

**Eye**

Will cause irritation in contact with the eyes, resulting in stinging, redness, excessive tearing and blurred vision.

**Chronic Effects**

Not available

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Persistence / Degradability**

Not available

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

**Environ. Protection**

Do not allow product to enter drains, sewers or waterways.

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## 13. DISPOSAL CONSIDERATIONS

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**Disposal Considerations**

The spilled or waste material must be disposed of in accordance with applicable local and national regulations.

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## 14. TRANSPORT INFORMATION

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**Transport Information****Australia:**

This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail.

Class 3 - Flammable Liquids are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk
- Class 2.3, Toxic Gases
- Class 4.2 Spontaneously Combustible Substances
- Class 5.1 Oxidising Agents and Class 5.2, Organic Peroxides
- Class 6 Toxic Substances (where the flammable liquid is nitromethane)
- Class 7 Radioactive Substances.

**New Zealand:**

This material is classified as a Class 3 - Flammable Liquid according to NZS 5433:2007 Transport of Dangerous Goods on Land.

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

- (Class 1) Explosives
- (Class 2.1) Flammable gases
- (Class 2.3) Toxic gases
- (Class 4.2) Spontaneously combustible substances
- (Class 5.1) Oxidising substances
- (Class 5.2) Organic peroxides or
- (Class 7) Radioactive materials unless specifically exempted.

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:

- (Class 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:

- (Class 4.2) Spontaneously combustible substances

- (Class 4.3) Dangerous when wet substances

-(Class 5.1) Oxidising substances

-(Class 5.2) Organic peroxides

**U.N. Number**

1993

**Proper Shipping Name**

FLAMMABLE LIQUID, N.O.S. - (CONTAINS XYLENE)

**DG Class**

3

**Packing Group**

III

**Hazchem Code**

•3Y

**IERG Number**

14

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## 15. REGULATORY INFORMATION

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**Regulatory Information**

Australia:

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**Poisons Schedule**

S5

**National and or International Regulatory Information**

New Zealand:

Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

All components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempted.

Group Standard:

Surface Coatings and Colourants (Flammable) Group Standard 2006.

**HSNO Approval Number**

HSR002662

**Hazard Category**

Irritant, Dangerous for the environment, Flammable, Sensitising

**Australia (AICS)**

All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted.

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## 16. OTHER INFORMATION

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**Date of preparation or last revision of MSDS**

MSDS Reviewed: May 2010

Supersedes: June 2005

**Contact Person/Point**

For specialist advice in emergencies: Australia 1800 022 037; New Zealand 0800 154 666.

IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the

product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Con-Treat Pty Ltd.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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End of MSDS

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Con-Treat Pty Ltd

# Material Safety Data Sheet

## SUREFLOOR PART B SLOW

**Infosafe No.** 1HLAQ **Version No.** **ISSUED** May **Status** ISSUED  
**Date** 2009

**Classified as hazardous according to criteria of NOHSC**

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### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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**Product Name**

SUREFLOOR HS PART B  
SLOW

**Product Code**

B82039

**Company Name**

Con-Treat PTY LTD

**Address**

Australia:

Unit 11 80-82 Township Drv, Burleigh Heads, QLD4220

**Emergency Tel.**

Australia: 1800 022 037

**Telephone/Fax Number** 1300 044 625

**Email**

info@con-treat.com.au

**Recommended Use**

Curing agent for epoxy resins - flooring.

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### 2. HAZARDS IDENTIFICATION

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**Hazard Classification**

Australia:

Classified as Hazardous, according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).

Classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

New Zealand:

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.

Classified as Dangerous Goods for transport, according to the NZS 5433:2007 Transport of Dangerous Goods on Land.

HSNO Classification:

6.1D - Substance that is acutely toxic if swallowed and in contact with skin.

6.5B - Substance that is a contact sensitiser.

- 6.8B - Substance that is a suspected human reproductive or developmental toxicant.
- 8.2C - Substance that is corrosive to dermal tissue.
- 8.3A - Substance that is corrosive to ocular tissue.
- 9.1C - Substance that is ecotoxic in the aquatic environment.
- 9.2B - Substance that is ecotoxic in the soil environment.
- 9.3C - Substance that is toxic to terrestrial vertebrates.

Hazard statement code:

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H317 May cause an allergic skin reaction.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H361 Suspected of damaging fertility or the unborn child.
- 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.
- 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.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe 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 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.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P391 Collect spillage.
- INHALATION:
  - P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
  - P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
  - P331 Do NOT induce vomiting.
- INGESTION:
  - P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
  - P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- SKIN:
  - P302+P352 IF ON SKIN: Wash with plenty of soap and water.
  - 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.
  - P310 Immediately call a POISON CENTRE 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 CENTRE or doctor/physician.

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 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.

**Risk Phrase(s)**

R34 Causes burns.

R43 May cause sensitization by skin contact.

R62 Possible risk of impaired fertility.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

### Safety Phrase (s)

S23 Do not breathe gas/fumes/vapour/spray

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 In case of accident or if you feel unwell seek medical advice immediately

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

S24/25 Avoid contact with skin and eyes.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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### Ingredients

Name	CAS	EINECS	Proportion
Isophorone diamine	2855-13-2	220-666-8	30-60 %
Benzyl Alcohol	100-51-6	202-859-9	30-60 %
1,5-pentanediamine, 2-methyl	15520-10-2	239-556-6	10-30 %
BISPHENOL A	80-05-7	201-245-8	0-<10 %

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## 4. FIRST AID MEASURES

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### Inhalation

If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Seek IMMEDIATE medical attention.

### Ingestion

Do NOT induce vomiting. Wash out mouth with water. Seek IMMEDIATE medical attention.

### Skin

Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. Seek IMMEDIATE medical attention.

### Eye

If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek IMMEDIATE medical attention.

### First Aid Facilities

Eye wash station, 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).

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## 5. FIRE FIGHTING MEASURES

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### Suitable Extinguishing Media

Water spray, carbon dioxide, foam or dry powder.

### Hazards from Combustion Products

Combustion may produce Carbon monoxide, carbon dioxide, oxides of nitrogen, ammonia,

amines, fumes and smoke.

### **Specific Hazards**

Combustible liquid. This product will burn if exposed to fire.

### **Hazchem Code**

2X

### **Precautions in connection with Fire**

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.

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## 6. ACCIDENTAL RELEASE MEASURES

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### **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 authorities and EPA in accordance with local regulations.

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## 7. HANDLING AND STORAGE

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### **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. Store away from oxidising agents and bases/acids. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Provide a catch-tank in a bunded area. Store in original packages as approved by manufacturer. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. For information on the design of the storeroom, reference should be made to Australian Standard AS 3780-1994 The storage and handling of corrosive substances. Reference should also be made to all State and Federal regulations.

### **Storage Regulations**

Classified as a (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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### **National Exposure Standards**

No exposure standards have been established for this material by the Australian National Occupational Health & Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, as with all chemicals, exposure should be kept to the lowest possible levels.

### **Biological Limit Values**

No biological limit allocated.

### **Engineering Controls**

Provide sufficient ventilation. Where vapours or mists are generated, a local exhaust ventilation system, drawing vapours/mists away from workers breathing zone, should be used.

#### **Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable 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 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 such as PVC or nitrile rubber gloves. 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 workwear, e.g. cotton overalls buttoned at neck and wrist. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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#### **Appearance**

Amber liquid.

#### **Odour**

Amine odour.

#### **Melting Point**

Not available

#### **Boiling Point**

> 200°C

#### **Solubility in Water**

Insoluble

#### **Specific Gravity**

1.0

#### **pH Value**

Not applicable.

#### **Vapour Pressure**

Not available.

#### **Vapour Density (Air=1)**

Not available.

#### **Flash Point**

112°C

#### **Flammability**

Combustible liquid.

**Auto-Ignition Temperature**

Not available.

**Flammable Limits - Lower**

Not available.

**Flammable Limits - Upper**

Not available.

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## 10. STABILITY AND REACTIVITY

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**Chemical Stability**

Stable under normal conditions of storage and handling.

**Conditions to Avoid**

Extremes of temperature and direct sunlight.

**Incompatible Materials**

Strong oxidising agents, acids, bases and epoxies.

**Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide, oxides of nitrogen, ammonia, amines, fumes and smoke.

**Hazardous Reactions**

Will react with strong acids to produce heat.

**Hazardous Polymerization**

Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information**

Acute toxicity:

For Isophorone diamine:

LD50 Oral (rat): 1990 mg/kg.

For benzyl alcohol:

LD50 Oral (rat): 1230-1660 mg/kg

**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.

**Ingestion**

Harmful if swallowed. Ingestion of this product may cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.

**Skin**

Harmful in contact with skin. Corrosive to skin. Skin contact will cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction. This product may cause sensitisation in some individuals.

**Eye**

Causes burns. Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.

**Chronic Effects**

Allergic response and dermatitis or asthma like symptoms may occur after a single significant exposure, and sensitisation may occur on a single exposure, or multiple minor exposures.

**Reproductive Toxicity**

According to NOHSC this product is a category 3 Possible risk of impaired fertility.

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Persistence / Degradability**

Not available

**Mobility**

Not available

**Environ. Protection**

Do not allow product to enter drains, waterways or sewers.

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## 13. DISPOSAL CONSIDERATIONS

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**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 federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

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## 14. TRANSPORT INFORMATION

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**Transport Information****Australia:**

This material is classified as a Class 8 (Corrosive) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following:

- Class 1, Explosive
- Class 4.3, Dangerous When Wet Substance
- Class 5.1, Oxidising Agent
- Class 5.2, Organic Peroxide
- Class 6, Toxic and Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
- Class 7, Radioactive Substance

and are incompatible with food and food packaging in any quantity.

**New Zealand:**

This material is classified as a Class 8 - Corrosive Substance according to NZS 5433:2007 Transport of Dangerous Goods on Land.

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

- Class 1, Explosives
- Class 5.1, Oxidising substances
- Class 5.2, Organic peroxides
- Class 7, Radioactive materials unless specifically exempted

And are incompatible with food and food packaging in any quantity.

Note 1; Cyanides (Class 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:

- Class 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:



- Class 4.3, Dangerous when wet substances
  - Class 5.1, Oxidising substances
  - Class 5.2, Organic peroxides
- And are incompatible with food and food packaging in any quantity.

**U.N. Number**

1760

**Proper Shipping Name**

CORROSIVE LIQUID, N.O.S. - (CONTAINS ISOPHORONE DIAMINE)

**DG Class**

8

**Packing Group**

III

**Hazchem Code**

2X

**IERG Number**

37

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## 15. REGULATORY INFORMATION

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**Regulatory Information**

Australia:

Classified as hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC).

Classified as a Scheduled Poison S5 according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**Poisons Schedule**

S5

**National and or International Regulatory Information**

New Zealand:

Classified as Hazardous according to the Hazardous Substances (Classification) Regulations 2001.

Group standard:

Additives, Process Chemicals and Raw Materials (Corrosive) Group Standard 2006  
HSNO Approval Number HSR002491.

**Hazard Category**

Harmful, Toxic for reproduction fertility Category 3, Dangerous for the environment, Sensitising

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## 16. OTHER INFORMATION

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**Date of preparation or last revision of MSDS**

MSDS Reviewed: May 2009

MSDS created: June 2004

**Contact Person/Point**

For specialist advice in emergencies: Australia 1800 022 037; New Zealand 0800 154 666.

IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Con-Treat Pty Ltd. Our responsibility for products sold is subject to our standard terms and

conditions, a copy of which is sent to our customers and is also available on request.

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End of MSDS

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Con-Treat Pty Ltd