

**SAFETY DATA SHEET**

Version 2.1

**SECTION 1: IDENTIFICATION****Product Identifier**

|                         |                            |
|-------------------------|----------------------------|
| <b>Product Name</b>     | SUPERCLEAR HARDENER PART B |
| <b>Chemical Name</b>    | Not Available              |
| <b>Identifying Code</b> | 98205                      |

**Recommended use of the chemical and restrictions on use**

|                        |   |
|------------------------|---|
| <b>Recommended Use</b> | Hardener for 2 part sealer for concrete |
|------------------------|---|

**Details of Manufacturer**

|                     |  |
|---------------------|--|
| <b>Company Name</b> | Sydney Industrial Coatings   |
| <b>Address</b>      | 6 Giffard Street, Silverwater NSW 2128   |
| <b>Telephone</b>    | +61(0)2 9648 3019  |
| <b>Website</b>      | <a href="http://www.sydneyindustrialcoatings.com.au">www.sydneyindustrialcoatings.com.au</a> |
| <b>Email</b>        |  |

**Emergency Telephone number**


|                                |              |
|--------------------------------|--------------|
| <b>Poisons Information</b>     | 13 11 26     |
| <b>Other emergency numbers</b> | 02 9648 3019 |

**SECTION 2: HAZARD IDENTIFICATION**

|   |  |
|---|--|
| <b>Classification of the substance or mixture</b> | <p>Sensitization of the skin, Category 1</p> <p>Specific target organ toxicity (single exposure) Category 3 (respiratory tract irritation)</p> <p>Chronically hazardous to aquatic environment, Category 3</p> <p>Acute toxicity, Inhalive, Category 4</p> <p>Reproductive toxicity Category 1B</p> <p>Eye Irritation, Category 2A</p> <p>COMBUSTIBLE LIQUID (flammable liquid Category 4)</p> |
|---|--|

**HAZARDOUS CHEMICAL, NON-DANGEROUS GOODS.** According to the WHS Regulations and the ADG Code

**Label Elements**

|                                 |   |
|---------------------------------|---|
| <b>GHS label elements</b>       |    |
| <b>SIGNAL WORD</b>              | DANGER  |
| <b>Hazard statements</b>        | <p>Combustible liquid</p> <p>Causes skin irritation, May cause an allergic skin reaction</p> <p>Causes eye irritation</p> <p>May cause respiratory irritation</p> <p>May damage fertility or unborn child</p>   |
| <b>Other hazards</b>            | P102 Keep out of reach of children, P103 Read label before use  |
| <b>Precautionary statements</b> | <p>Wear protective gloves/protective clothing, Wear eye or face protection</p> <p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking</p> <p>Avoid breathing mist/vapours/spray. Use outdoors or in a well ventilated area. Keep container tightly closed</p> |
| <b>Response</b>                 | <p>IF INHALED: remove to fresh air, call POISON CENTRE or doctor</p> <p>IF ON SKIN(or hair): take off contaminated clothing. Rinse skin with water/shower</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses carefully</p>                                       |
| <b>Storage</b>                  | Store locked up. Store in well ventilated place. Keep cool  |
| <b>Disposal</b>                 | Dispose of contents and container in accordance with all local, regional, national and international regulations  |

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

| Substances  | mixture    |  |
|-------------|------------|--|
| CAS No      | % (weight) | Chemical   |
| 160994-68-3 | 70-80      | hydrophylic aliphatic polyisocyanate                         |
|             |            | contains Hexamethylene-1,6-diisocyanate concentration <0.15% |
| 872-50-4    | 20-30      | 1-methyl-2-pyrrolidinone                                     |
|             |            |  |
|             |            |  |

**SECTION 4: FIRST AID MEASURES****Description of first aid measures**

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | <p>If this product comes in contact with eyes:</p> <ul style="list-style-type: none"> <li>▶ Wash out immediately with water</li> <li>▶ If irritation continues, seek medical advice</li> <li>▶ Removing contact lenses after an eye injury should only be undertaken by skilled personnel</li> </ul> |
| <b>Skin Contact</b> | <ul style="list-style-type: none"> <li>▶ Flush skin and hair with running water (and soap if available)</li> <li>▶ Seek medical attention in event of irritation</li> <li>▶ Wash contaminated clothing before re-use</li> </ul>  |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ Move to fresh air</li> <li>▶ If breathing difficulties seek medical attention</li> </ul>  |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li>▶ Rinse mouth with water</li> <li>▶ Do not induce vomiting, if in doubt contact Poisons Information Centre or doctor</li> </ul>   |

**Most important symptoms and effects, both acute and delayed:**

Information found under Description of first aid measures and Indication of immediate medical attention and special treatment needed.

**Indication of any immediate medical attention and special treatment needed:**

Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient

**SECTION 5: FIRE FIGHTING MEASURES**

|                                       |   |
|---------------------------------------|---|
| <b>Suitable extinguishing media</b>   | ▶ Water spray or fog, Foam, Dry Chemical Powder, BCF(where regulations permit), Carbon Dioxide  |
| <b>Unsuitable extinguishing media</b> | ▶ High volume water jet   |
| <b>Specific hazards</b>               | <ul style="list-style-type: none"> <li>▶ Avoid contamination with oxidising agents i.e. nitrates,oxidising acids,chlorine bleaches,pool chlorine as ignition may result</li> <li>▶ May produce hazardous decomposition products such as carbon monoxide,carbon dioxide,(dense) black smoke</li> </ul> |

**Special protective equipment and precautions for Fire Fighters**

|                              |   |
|------------------------------|---|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▶ Wear breathing apparatus, protective suit and gloves</li> <li>▶ Prevent run off from fire fighting to enter drains or water courses</li> <li>▶ Isolate scene, removing all non essential personnel</li> <li>▶ Cool fire exposed containers with water spray</li> </ul>   |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Combustible</li> <li>▶ Heating may cause expansion of containers</li> <li>▶ Combustion products include:carbon monoxide (CO), carbon dioxide (CO2), nitrogen oxides(NOx)</li> <li>▶ Thermochemical decomposition products typical of burning organic material</li> </ul> |

|                     |                |
|---------------------|----------------|
| <b>Hazchem Code</b> | NONE ALLOCATED |
|---------------------|----------------|

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                     |  |
|---------------------|--|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>▶ Clean up all spills immediately</li> <li>▶ Do not walk through spills, material can create slippery conditions</li> <li>▶ Use personal protective equipment,safety glasses,gloves.See Section 8</li> <li>▶ Place spillage and cleaning media in a container for disposal</li> </ul>   |
| <b>Major Spills</b> | <ul style="list-style-type: none"> <li>▶ Evacuate personnel to safe area. Ventilate. Move containers from spill area</li> <li>▶ Use personal protective equipment,safety glasses,gloves</li> <li>▶ Prevent spillage from entering drains, sewers or water course</li> <li>▶ Contain spill with absorbent material eg sand,sawdust,earth</li> <li>▶ Pick up and transfer to properly labelled containers.For disposal see Section 13</li> </ul> |

### Environmental precautions

|                                  |  |
|----------------------------------|--|
| <b>Environmental precautions</b> | <ul style="list-style-type: none"> <li>▶ Prevent spillage from entering drains, sewers or waterways</li> <li>▶ Avoid subsoil penetration</li> <li>▶ Advise relevant authorities if the product has caused environmental pollution</li> </ul> |
|----------------------------------|--|

### Methods and materials for containment and cleaning up

|                                 |   |
|---------------------------------|---|
| <b>Containment and cleaning</b> | <ul style="list-style-type: none"> <li>▶ Stop leaking container. Move containers from spill area</li> <li>▶ Contain and collect spill with absorbent material eg sand,sawdust,earth</li> <li>▶ Mop area with water</li> <li>▶ Place spillage and cleaning media in a container for disposal according to local regulations</li> </ul> |
|---------------------------------|---|

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

|                      |  |
|----------------------|--|
| <b>Safe Handling</b> | <ul style="list-style-type: none"> <li>▶ Wear protective clothing when risk of exposure occurs.Avoid contact with eyes and skin</li> <li>▶ Use in a well-ventilated area, do not breathe vapour or mist</li> <li>▶ Wash thoroughly after handling</li> <li>▶ When handling do not eat,drink or smoke</li> <li>▶ Keep containers securely sealed when not in use</li> <li>▶ Do not store in unlabelled containers</li> <li>▶ The precautions required in the handling of isocyanates must be taken</li> <li>▶ Protect containers against physical damage and check for leaks regularly</li> </ul> |
|----------------------|--|

### Conditions for safe storage

|                                    |  |
|------------------------------------|--|
| <b>Conditions for safe storage</b> | <ul style="list-style-type: none"> <li>▶ Store in a cool, dry, well-ventilated area.</li> <li>▶ Store away from incompatible materials and foodstuff containers</li> <li>▶ Store away from oxidising agents (alkali and acid)</li> <li>▶ Keep from freezing.Store between 5°C to 40°C</li> </ul> |
|------------------------------------|--|

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

| Component                   | Regulation | Type of listing | Value / Notification         |
|-----------------------------|------------|-----------------|------------------------------|
| Hexamethyl-1,6-diisocyanate | AU OEL     | TWA             | 0.02mg/m <sup>3</sup>        |
| Homopolymer                 | AU OEL     | STEL            | 0.07mg/m <sup>3</sup>        |
| Hexamethyl-1,6-diisocyanate | AU OEL     | TWA             | 0.02mg/m <sup>3</sup>        |
| diisocyanate                | AU OEL     | STEL            | 0.07mg/m <sup>3</sup>        |
| 1-methyl-2-pyrrolidinone    | AU OEL     | TWA             | 103mg/m <sup>3</sup> / 25ppm |

### Exposure controls

|                             |  |
|-----------------------------|--|
| <b>Engineering Controls</b> | <ul style="list-style-type: none"> <li>▶ Use only in area provided</li> <li>▶ Good general ventilation, sufficient to control worker exposure to airborne contaminants</li> <li>▶ Process controls to ensure correct handling of containers</li> </ul> |
|-----------------------------|--|

## Personal Protective equipment

|                               |   |
|-------------------------------|---|
| <b>Eye Protection</b>         | <ul style="list-style-type: none"> <li>▶ Wear Safety glasses with side shields</li> <li>▶ Chemical goggles</li> </ul>   |
| <b>Hand Protection</b>        | <ul style="list-style-type: none"> <li>▶ Wear gloves with chemical resistance. Neoprene,PVC,Butyl rubber</li> <li>▶ Gloves should be examined for wear and degradation constantly</li> </ul>          |
| <b>Skin Protection</b>        | <ul style="list-style-type: none"> <li>▶ Lightweight protective clothing when handling small quantities OTHERWISE</li> <li>▶ wear suitable protective clothing eg. Overalls, barrier cream</li> </ul> |
| <b>Respiratory Protection</b> | <ul style="list-style-type: none"> <li>▶ Respirator not necessary</li> <li>▶ Use face mask if spraying to protect from breathing mist particles</li> </ul>  |

## Hygiene measures

|                         |  |
|-------------------------|--|
| <b>Hygiene measures</b> | <ul style="list-style-type: none"> <li>▶ Wash hands before breaks and immediately after handling the product</li> <li>▶ Wash before eating, smoking, and using the toilet and at the end of the working day</li> <li>▶ Wash contaminated clothing before re-use</li> <li>▶ Ensure eyewash station and safety showers are close to work area</li> </ul> |
|-------------------------|--|

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

| Appearance                | unit of measure |               |
|---------------------------|-----------------|---------------|
| Physical state            |                 | liquid        |
| Colour                    |                 | clear         |
| Odour                     |                 | mild amine    |
| Odour Threshold           |                 | Not Available |
| pH                        |                 | Not Available |
| Melting point/range       | (°C)            | Not Available |
| Freezing point            | (°C)            | Not Available |
| Boiling point/range       | (°C)            | 202-204       |
| Flash point               | (°C)            | 91-95         |
| Evaporation rate          | Butyl acetate=1 | Not Available |
| Flammability(solid,gas)   |                 | Not Available |
| Lower explosion limit     | (%)             | Not Available |
| Upper explosion limit     | (%)             | Not Available |
| Vapour Pressure           | kPa             | Not Available |
| Relative Vapour Density   | air = 1         | Not Available |
| Relative Density          | water = 1       | 1.1           |
| Water solubility          |                 | partially     |
| Partition coefficient     | n-octanol/water | Not Available |
| Auto-ignition temperature | (°C)            | Not Available |
| Decomposition temp        | (°C)            | Not Available |
| Viscosity                 |                 | Not Available |

**SECTION 10: STABILITY AND REACTIVITY**

|   |   |
|---|---|
| <b>Reactivity</b>                         | ▶ No data available   |
| <b>Chemical stability</b>                 | ▶ Stable under recommended storage conditions   |
| <b>Possibility of hazardous reactions</b> | ▶ Exothermic reaction with amines and alcohols reacts slowly with water forming CO <sub>2</sub> , in closed containers risk of bursting due to increase of pressure |
| <b>Conditions to avoid</b>                | ▶ No data available   |
| <b>Incompatible Materials</b>             | ▶ Avoid contamination with oxidising agents i.e. nitrates,oxidising acids,chlorine bleaches,pool chlorine   |
| <b>Hazardous decomposition products</b>   | ▶ Combustion products include:carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> )   |

**SECTION 11: TOXICOLOGICAL INFORMATION****Information on toxicological effects**

No adverse health effects are expected, if the product is handled in accordance with this Safety Data Sheet and the product label.

Symptoms and effects that may arise if the product is mishandled and over-exposure occurs are:

|  |   |
|--|---|
| <b>Acute toxicity</b>  | ▶ hydrophylic aliphatic polyisocyanate LD50 rat: >2.000mg/kg<br>▶ 1-methyl-2-pyrrolidinone LD50 rat: 3914mg/kg  |
| <b>Skin corrosion/irritation</b>                                 | ▶ hydrophylic aliphatic polyisocyanate Species: Rabbit: Slight irritant<br>▶ 1-methyl-2-pyrrolidinone LD50 rat: >5000mg/kg  |
| <b>Serious eye damage/irritation</b>                             | ▶ 1-methyl-2-pyrrolidinone may cause eye irritation: Eye(rabbit) 100mg - moderate<br>May produce painful burning or stinging of the eyes and lids, watering and inflammation of conjunctiva |
| <b>Respiratory/skin sensitisation</b>                            | ▶ hydrophylic aliphatic polyisocyanate may cause sensitization by skin contact  |
| <b>Germ cell mutagenicity</b>                                    | ▶ No data available   |
| <b>Carcinogenicity</b>   | ▶ No data available   |
| <b>Reproductive toxicity</b>                                     | ▶ No data available   |
| <b>Specific Target Organ Toxicity (STOT) - single exposure</b>   | ▶ No data available   |
| <b>Specific Target Organ Toxicity (STOT) - repeated exposure</b> | ▶ No data available   |
| <b>Aspiration Hazard</b>   | ▶ No data available   |

**SECTION 12: ECOLOGICAL INFORMATION**

|                                  |   |
|----------------------------------|---|
| <b>Toxicity</b>                  | ▶ hydrophylic aliphatic polyisocyanate LC50 Danio rerio 96hours exposure value:28.3mg/l<br>▶ 1-methyl-2-pyrrolidinone LC50 Fish 96hours exposure value:464mg/l<br>▶ hydrophylic aliphatic polyisocyanate EC50 algae 72hours exposure value:>100mg/l<br>▶ 1-methyl-2-pyrrolidinone EC50 algae 72hours exposure value:>500mg/l<br>▶ 1-methyl-2-pyrrolidinone EC50 crustacea 48hours exposure value:ca.4897mg/l<br>▶ 1-methyl-2-pyrrolidinone EC50 crustacea 384hours exposure value:ca.133.481mg/l<br>▶ 1-methyl-2-pyrrolidinone NOEC crustacea 504hours exposure value:12.5mg/l<br>▶ hydrophylic aliphatic polyisocyanate EC50 Daphnia magna 48hours exposure value:>100mg/l |
| <b>Persistence/Degradability</b> | ▶ hydrophylic aliphatic polyisocyanate:2%, 28d, ie not readily degradable<br>▶ 1-methyl-2-pyrrolidinone: Persistence water/soil:LOW, air:LOW  |
| <b>Bioaccumulative potential</b> | ▶ 1-methyl-2-pyrrolidinone: LOW(BCF = 0.16)   |
| <b>Mobility in soil</b>          | ▶ 1-methyl-2-pyrrolidinone: LOW(KOC = 20.94)  |
| <b>Other adverse effects</b>     | ▶ Isocyanate reacts with water at interface forming CO2 and a solid insoluble polyurea. This reaction is accelerated by watersoluble solvent, polyurea is inert and non-degradable  |

**SECTION 13: DISPOSAL CONSIDERATIONS**

|                        |  |
|------------------------|--|
| <b>Disposal method</b> | ▶ In accordance with local council, state environmental authority and national regulations<br>▶ Discharging waste into drains, sewers and waterways is forbidden |
|------------------------|--|

**Contaminated packaging**

▶ Recycle as first consideration, landfill or incineration when recycling not possible

**SECTION 14: TRANSPORT INFORMATION**

|                              | <b>ADG Code</b><br>Transport by road and rail | <b>Marine Transport</b><br>(IMO/IMDG) | <b>Air Transport</b><br>(ICAO/IATA) |
|------------------------------|---|---------------------------------------|-------------------------------------|
| <b>UN Number</b>             | Not Regulated                                 | Not Regulated                         | Not Regulated                       |
| <b>Proper Shipping Name</b>  | Not Regulated                                 | Not Regulated                         | Not Regulated                       |
| <b>Dangerous Goods Class</b> | Not Regulated                                 | Not Regulated                         | Not Regulated                       |
| <b>Packing Group</b>         | Not Regulated                                 | Not Regulated                         | Not Regulated                       |
| <b>Hazchem Code</b>          | Not Regulated                                 | Not Regulated                         | Not Regulated                       |
| <b>Environmental Hazards</b> | No  | No                                    | No                                  |
| <b>Special Precautions</b>   | Keep dry,Avoid heat above 50°C                | Keep dry,Avoid heat above 50°C        | Keep dry,Avoid heat above 50°C      |
|                              | Keep away from alkali and acid                | Keep away from alkali and acid        | Keep away from alkali and acid      |

**SECTION 15: REGULATORY INFORMATION**

Safety,Health and Environmental regulations/legislation specific for the substance or mixture

**Poisons Schedule** Schedule 6**National Inventory (AICS)** All of the components of this product are on the inventory**SECTION 16: OTHER INFORMATION****Abbreviations and acronyms:**

|  |             |   |
|--|-------------|---|
| <b>Issue date</b> 17/12/2019             | <b>ADG</b>  | Australian Dangerous Goods Code             |
| <b>Revision date</b> 17/12/2019          | <b>GHS</b>  | Globally Harmonised System                  |
| <b>Version</b> 2.1                       | <b>IATA</b> | International Air Transport Association     |
| <b>Reason for revision</b> GHS compliant | <b>IMDG</b> | International Maritime Dangerous Goods      |
|  | <b>UN</b>   | United Nations                              |
|  | <b>AICS</b> | Australian Inventory of Chemical Substances |
|  | <b>ICAO</b> | International Civil Aviation Organization   |
|  | <b>IMO</b>  | Australian Inventory of Chemical Substances |

Information provided in this Safety Data Sheet is correct to the best of our knowledge, data and belief at the date of publication.

The information is designed only as a guide for safe handling,use,processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.