

# Multigard 955CP Part A

ALTEX COATINGS LTD

Chemwatch: 9-50195  
Version No: 1.2  
Safety Data Sheet according to HSNO Regulations

Chemwatch Hazard Alert Code: 2

Issue Date: 21/03/2014  
Print Date: 21/03/2014  
Initial Date: 21/03/2014  
S.GHS.NZLEN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### Product Identifier

|                               |                                  |
|-------------------------------|----------------------------------|
| Product name                  | Multigard 955CP Part A           |
| Chemical Name                 | Not Applicable                   |
| Synonyms                      | derived from 0951A1NL 24/10/2013 |
| Proper shipping name          | Not Applicable                   |
| Chemical formula              | Not Applicable                   |
| Other means of identification | Not Available                    |
| CAS number                    | Not Applicable                   |

### Relevant identified uses of the substance or mixture and uses advised against

|                          |   |
|--------------------------|---|
| Relevant identified uses | Use according to manufacturer's directions. |
|--------------------------|---|

### Details of the supplier of the safety data sheet

|                         |  |
|-------------------------|--|
| Registered company name | ALTEX COATINGS LTD                               |
| Address                 | 91-111 Oropi Road 3112 Bay of Plenty New Zealand |
| Telephone               | +64 7 5411974                                    |
| Fax                     | +64 7 5411310                                    |
| Website                 | Not Available                                    |
| Email                   | neil.debenham@carboline.co.nz                    |

### Emergency telephone number

|                                   |   |
|-----------------------------------|---|
| Association / Organisation        | NZ Poisons Centre (0800-1630hr Mon-Fri) |
| Emergency telephone numbers       | 0800 764766                             |
| Other emergency telephone numbers | 0800 764766                             |

### CHEMWATCH EMERGENCY RESPONSE

| Primary Number | Alternative Number 1 | Alternative Number 2 |
|----------------|----------------------|----------------------|
| +800 2436 2255 | +612 9186 1132       | Not Available        |

Once connected and if the message is not in your preferred language then please dial 01

## SECTION 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

**Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.**

|   |  |
|---|--|
| GHS Classification [1]                          | Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Skin Sensitizer Category 1, STOT - RE Category 2, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2 |
| Legend:   | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI   |
| Determined by Chemwatch using GHS/HSNO criteria | 6.3A, 6.4A, 6.5B (contact), 6.9B (inhalation), 9.1B, 9.1D  |

### Label elements

|                    |  |
|--------------------|--|
| GHS label elements |  |
|--------------------|--|

|             |                |
|-------------|----------------|
| SIGNAL WORD | <b>WARNING</b> |
|-------------|----------------|

**Hazard statement(s)**

|             |   |
|-------------|---|
| <b>H315</b> | Causes skin irritation  |
| <b>H319</b> | Causes serious eye irritation                                     |
| <b>H317</b> | May cause an allergic skin reaction                               |
| <b>H373</b> | May cause damage to organs through prolonged or repeated exposure |
| <b>H401</b> | Toxic to aquatic life   |
| <b>H411</b> | Toxic to aquatic life with long lasting effects                   |

**Precautionary statement(s): Prevention**

|             |  |
|-------------|--|
| <b>P260</b> | Do not breathe dust/fume/gas/mist/vapours/spray.                           |
| <b>P280</b> | Wear protective gloves/protective clothing/eye protection/face protection. |
| <b>P273</b> | Avoid release to the environment.  |
| <b>P272</b> | Contaminated work clothing should not be allowed out of the workplace.     |

**Precautionary statement(s): Response**

|                       |  |
|-----------------------|--|
| <b>P321</b>           | Specific treatment (see advice on this label).                   |
| <b>P302+P352</b>      | IF ON SKIN: Wash with plenty of water and soap                   |
| <b>P305+P351+P338</b> | IF IN EYES: Rinse cautiously with water for several minutes.     |
| <b>P314</b>           | Get medical advice/attention if you feel unwell.                 |
| <b>P333+P313</b>      | If skin irritation or rash occurs: Get medical advice/attention. |
| <b>P337+P313</b>      | If eye irritation persists: Get medical advice/attention.        |
| <b>P362+P364</b>      | Take off contaminated clothing and wash it before reuse.         |
| <b>P391</b>           | Collect spillage.  |

**Precautionary statement(s): Storage**

Not Applicable

**Precautionary statement(s): Disposal**

|             |  |
|-------------|--|
| <b>P501</b> | Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration |
|-------------|--|

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

See section below for composition of Mixtures

**Mixtures**

| CAS No     | %[weight] | Name   |
|------------|-----------|--|
| 25068-38-6 | <=90      | <a href="#">bisphenol A/ epichlorohydrin resin, liquid</a> |
| 41638-13-5 | <=10      | <a href="#">dipropylene glycol diglycidyl ether</a>        |
| 2530-83-8  | <=5       | <a href="#">gamma-glycidoxypropyltrimethoxysilane</a>      |
| 67762-90-7 | <=5       | <a href="#">silica, dimethylsiloxane treated</a>           |

**SECTION 4 FIRST AID MEASURES**

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

**Description of first aid measures**

|                     |   |
|---------------------|---|
| <b>Eye Contact</b>  | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Wash out immediately with fresh running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |
| <b>Skin Contact</b> | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Immediately remove all contaminated clothing, including footwear.</li> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul>   |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>▶ Other measures are usually unnecessary.</li> </ul>   |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li>▶ Immediately give a glass of water.</li> <li>▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>   |

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

|  |                        |
|--|------------------------|
|  | Treat symptomatically. |
|--|------------------------|

**SECTION 5 FIREFIGHTING MEASURES**

**Extinguishing media**

▶ Foam.

**Special hazards arising from the substrate or mixture****Fire Incompatibility**

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

**Advice for firefighters****Fire Fighting**

▶ Alert Fire Brigade and tell them location and nature of hazard.

**Fire/Explosion Hazard**

▶ Combustible.

**SECTION 6 ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Minor Spills**

Environmental hazard - contain spillage.

**Major Spills**

Environmental hazard - contain spillage.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

**SECTION 7 HANDLING AND STORAGE****Precautions for safe handling****Safe handling**▶ **DO NOT allow clothing wet with material to stay in contact with skin**  
▶ Avoid all personal contact, including inhalation.**Other information**

▶ Store in original containers.

**Conditions for safe storage, including any incompatibilities****Suitable container**▶ Metal can or drum  
▶ Packaging as recommended by manufacturer.**Storage incompatibility**▶ Contact with water liberates highly flammable gases  
Epoxides:  
▶ are highly reactive with acids, bases, and oxidising and reducing agents.**PACKAGE MATERIAL INCOMPATIBILITIES****SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters****OCCUPATIONAL EXPOSURE LIMITS (OEL)****INGREDIENT DATA**

Not Available

**EMERGENCY LIMITS**

| Ingredient                                 | TEEL-0            | TEEL-1                | TEEL-2         | TEEL-3   |
|--|-------------------|-----------------------|----------------|----------|
| bisphenol A/ epichlorohydrin resin, liquid | 125 / 50 / 4(ppm) | 350 / 150 / 12.5(ppm) | 500 / 100(ppm) | 500(ppm) |
| gamma-glycidoxypropyltrimethoxysilane      | 150(ppm)          | 400(ppm)              | 500(ppm)       | 500(ppm) |
| silica, dimethylsiloxane treated           | 6(ppm)            | 15(ppm)               | 125(ppm)       | 500(ppm) |

| Ingredient             | Original IDLH | Revised IDLH  |
|------------------------|---------------|---------------|
| Multigard 955CP Part A | Not Available | Not Available |

**Exposure controls****Appropriate engineering controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.

**Personal protection****Eye and face protection**

Safety glasses with side shields.

**Skin protection**

See Hand protection below

**Hand protection****NOTE:**

▶ The material may produce skin sensitisation in predisposed individuals.

**Body protection**

See Other protection below

**Other protection**

▶ Protective overalls, closely fitted at neck and wrist.

**Thermal hazards**

**Recommended material(s)****GLOVE SELECTION INDEX**

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

Multigard 955CP Part A Not Available

| Material | CPI |
|----------|-----|
|----------|-----|

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation.

**Respiratory protection**

Type A-P Filter of sufficient capacity

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator  |
|------------------------------------|----------------------|----------------------|-------------------------|
| up to 10 x ES                      | A-AUS P2             | -                    | A-PAPR-AUS / Class 1 P2 |
| up to 50 x ES                      | -                    | A-AUS / Class 1 P2   | -                       |
| up to 100 x ES                     | -                    | A-2 P2               | A-PAPR-2 P2 ^           |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|   |                      |  |               |
|---|----------------------|--|---------------|
| <b>Appearance</b>                                   | amber viscous liquid |  |               |
| <b>Physical state</b>                               | Liquid               | <b>Relative density (Water = 1)</b>            | 1.17          |
| <b>Odour</b>  | Not Available        | <b>Partition coefficient n-octanol / water</b> | Not Available |
| <b>Odour threshold</b>                              | Not Available        | <b>Auto-ignition temperature (°C)</b>          | Not Available |
| <b>pH (as supplied)</b>                             | Not Available        | <b>Decomposition temperature</b>               | Not Available |
| <b>Melting point / freezing point (°C)</b>          | Not Available        | <b>Viscosity (cSt)</b>                         | Not Available |
| <b>Initial boiling point and boiling range (°C)</b> | 65                   | <b>Molecular weight (g/mol)</b>                | Not Available |
| <b>Flash point (°C)</b>                             | 148                  | <b>Taste</b>                                   | Not Available |
| <b>Evaporation rate</b>                             | Not Available        | <b>Explosive properties</b>                    | Not Available |
| <b>Flammability</b>                                 | Not Available        | <b>Oxidising properties</b>                    | Not Available |
| <b>Upper Explosive Limit (%)</b>                    | 36                   | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Available |
| <b>Lower Explosive Limit (%)</b>                    | 1                    | <b>Volatile Component (%vol)</b>               | Not Available |
| <b>Vapour pressure (kPa)</b>                        | Not Available        | <b>Gas group</b>                               | Not Available |
| <b>Solubility in water (g/L)</b>                    | Immiscible           | <b>pH as a solution(1%)</b>                    | Not Available |
| <b>Vapour density (Air = 1)</b>                     | Not Available        | <b>VOC g/L</b>                                 | Not Available |

**SECTION 10 STABILITY AND REACTIVITY**

|   |                                       |
|---|---------------------------------------|
| <b>Reactivity</b>                         | See section 7                         |
| <b>Chemical stability</b>                 | ► Presence of incompatible materials. |
| <b>Possibility of hazardous reactions</b> | See section 7                         |
| <b>Conditions to avoid</b>                | See section 7                         |
| <b>Incompatible materials</b>             | See section 7                         |
| <b>Hazardous decomposition products</b>   | See section 5                         |

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

|                  |  |
|------------------|--|
| <b>Inhaled</b>   | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). |
| <b>Ingestion</b> | The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion".                                    |

Multigard 955CP Part A

|                     |   |
|---------------------|---|
| <b>Skin Contact</b> | Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. |
| <b>Eye</b>          | Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals.  |
| <b>Chronic</b>      | Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals.  |

| Multigard 955CP Part A                     | TOXICITY                            | IRRITATION                 |
|--|-------------------------------------|----------------------------|
|  | Not Available                       | Not Available              |
| bisphenol A/ epichlorohydrin resin, liquid | TOXICITY                            | IRRITATION                 |
|  | Oral (rat) LD50: 11400 mg/kg        | Eye (rabbit): 100mg - Mild |
|  | Not Available                       | Not Available              |
| dipropylene glycol diglycidyl ether        | TOXICITY                            | IRRITATION                 |
|  | Dermal (Rabbit) LD50: >2000 mg/kg * | * [Dow]                    |
|  | Oral (rat) LD50: >2000 mg/kg *      | Not Available              |
| gamma-glycidoxypropyltrimethoxysilane      | TOXICITY                            | IRRITATION                 |
|  | Dermal (Rabbit) LD50: 3970 ul/kg    |                            |
|  | Oral (Rat) LD50: 22600 uL/kg        | Not Available              |
| silica, dimethylsiloxane treated           | TOXICITY                            | IRRITATION                 |
|  | Oral (rat) LD50: >5000 mg/kg        | [Cabot]                    |
|  |                                     | Eyes: 0.7/110 24hr Draize  |
|  |                                     | non-irritating             |
|  |                                     | Skin: 0/8 non-irritating   |
|  | Not Available                       | Not Available              |

|  |  |
|--|--|
| <b>DIPROPYLENE GLYCOL DIGLYCIDYL ETHER</b>                               | The material may produce moderate eye irritation leading to inflammation.<br>MUTAGENICITY: In vitro genetic toxicity studies were positive. * Dow Chemical SDS   |
| <b>GAMMA-GLYCIDOXYPROPYLTRIMETHOXYSILANE</b>                             | For alkoxysilanes:<br>Low molecular weight alkoxysilanes (including alkyl orthosilicates) are a known concern for lung toxicity, due to inhalation of vapours or aerosols causing irreversible lung damage at low doses. |
| <b>SILICA, DIMETHYLSILOXANE TREATED</b>                                  | For silica amorphous:<br>When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated.   |
| <b>Multigard 955CP Part A, BISPENOL A/ EPICHLOROHYDRIN RESIN, LIQUID</b> | The following information refers to contact allergens as a group and may not be specific to this product.  |

|  |   |                                 |   |
|--|---|---------------------------------|---|
| <b>Acute Toxicity</b>                    | ⊗ | <b>Carcinogenicity</b>          | ⊗ |
| <b>Skin Irritation/Corrosion</b>         | ✓ | <b>Reproductivity</b>           | ⊗ |
| <b>Serious Eye Damage/Irritation</b>     | ✓ | <b>STOT - Single Exposure</b>   | ⊗ |
| <b>Respiratory or Skin sensitisation</b> | ✓ | <b>STOT - Repeated Exposure</b> | ✓ |
| <b>Mutagenicity</b>                      | ⊗ | <b>Aspiration Hazard</b>        | ⊗ |

CMR STATUS

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

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

Persistence and degradability

| Ingredient    | Persistence: Water/Soil | Persistence: Air |
|---------------|-------------------------|------------------|
| Not Available | Not Available           | Not Available    |

**Bioaccumulative potential**

| Ingredient    | Bioaccumulation |
|---------------|-----------------|
| Not Available | Not Available   |


**Mobility in soil**

| Ingredient    | Mobility      |
|---------------|---------------|
| Not Available | Not Available |

**SECTION 13 DISPOSAL CONSIDERATIONS****Waste treatment methods**

|                                     |  |
|-------------------------------------|--|
| <b>Product / Packaging disposal</b> | ▶ Containers may still present a chemical hazard/ danger when empty.   |
|                                     | Insure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001. |

**SECTION 14 TRANSPORT INFORMATION****Labels Required**

|                         |   |
|-------------------------|---|
| <b>Marine Pollutant</b> |  |
| <b>HAZCHEM</b>          | Not Applicable  |

**Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**SECTION 15 REGULATORY INFORMATION****Safety, health and environmental regulations / legislation specific for the substance or mixture**

This substance is to be managed using the conditions specified in an applicable Group Standard

| HSR Number | Group Standard  |
|------------|---|
| HSR002670  | Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2006 |

|  |   |
|--|---|
| <b>bisphenol A/ epichlorohydrin resin, liquid(25068-38-6) is found on the following regulatory lists</b> | "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)", "OECD Existing Chemicals Database", "Sigma-AldrichTransport Information", "New Zealand Inventory of Chemicals (NZIoC)", "OECD List of High Production Volume (HPV) Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data", "Belgium Federal Public Service Mobility and Transport, Regulations concerning the International Carriage of Dangerous Goods by Rail - Table A: Dangerous Goods List - RID 2013 (Dutch)", "New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits", "International Maritime Dangerous Goods Requirements (IMDG Code) - Substance Index", "International Air Transport Association (IATA) Dangerous Goods Regulations", "International Maritime Dangerous Goods Requirements (IMDG Code)", "OSPAR National List of Candidates for Substitution – United Kingdom", "WHO Model List of Essential Medicines - Adults" |
| <b>dipropylene glycol diglycidyl ether(41638-13-5) is found on the following regulatory lists</b>        | "New Zealand Inventory of Chemicals (NZIoC)"  |
| <b>gamma-glycidioxypropyltrimethoxysilane(2530-83-8) is found on the following regulatory lists</b>      | "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)", "OECD Existing Chemicals Database", "FisherTransport Information", "Sigma-AldrichTransport Information", "New Zealand Inventory of Chemicals (NZIoC)", "International Council of Chemical Associations (ICCA) - High Production Volume List", "OECD List of High Production Volume (HPV) Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data"  |
| <b>silica, dimethylsiloxane treated(67762-90-7) is found on the following regulatory lists</b>           | "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)", "New Zealand Inventory of Chemicals (NZIoC)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data", "OSPAR National List of Candidates for Substitution – Norway"  |

**SECTION 16 OTHER INFORMATION****Other information**

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

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# Multi-Gard 955CP Part B

ALTEX COATINGS LTD

Chemwatch: 9-50205  
Version No: 2.7  
Safety Data Sheet according to HSNO Regulations

Chemwatch Hazard Alert Code: 4

Issue Date: 21/03/2014  
Print Date: 21/03/2014  
Initial Date: 21/03/2014  
S.GHS.NZLEN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### Product Identifier

|                               |                                  |
|-------------------------------|----------------------------------|
| Product name                  | Multi-Gard 955CP Part B          |
| Chemical Name                 | Not Applicable                   |
| Synonyms                      | derived from 0951B1NL 24/10/2013 |
| Proper shipping name          | Not Applicable                   |
| Chemical formula              | Not Applicable                   |
| Other means of identification | Not Available                    |
| CAS number                    | Not Applicable                   |

### Relevant identified uses of the substance or mixture and uses advised against

|                          |  |
|--------------------------|--|
| Relevant identified uses | The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing.<br>Part B of a two pack epoxy coating |
|--------------------------|--|

### Details of the supplier of the safety data sheet

|                         |  |
|-------------------------|--|
| Registered company name | ALTEX COATINGS LTD                               |
| Address                 | 91-111 Oropi Road 3112 Bay of Plenty New Zealand |
| Telephone               | +64 7 5411974                                    |
| Fax                     | +64 7 5411310                                    |
| Website                 | Not Available                                    |
| Email                   | neil.debenham@carboline.co.nz                    |

### Emergency telephone number

|                                   |   |
|-----------------------------------|---|
| Association / Organisation        | NZ Poisons Centre (0800-1630hr Mon-Fri) |
| Emergency telephone numbers       | 0800 764766                             |
| Other emergency telephone numbers | 0800 764766                             |

### CHEMWATCH EMERGENCY RESPONSE

| Primary Number | Alternative Number 1 | Alternative Number 2 |
|----------------|----------------------|----------------------|
| +800 2436 2255 | +612 9186 1132       | Not Available        |

Once connected and if the message is not in your preferred language then please dial 01

## SECTION 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

**Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.**

|   |   |
|---|---|
| GHS Classification <sup>[1]</sup>               | Acute Toxicity (Dermal) Category 3, Skin Corrosion/Irritation Category 1B, Serious Eye Damage Category 1, Skin Sensitizer Category 1, Carcinogen Category 2, Reproductive Toxicity Category 2, STOT - RE Category 2, Acute Aquatic Hazard Category 3, Chronic Aquatic Hazard Category 3, Acute Vertebrate Hazard Category 3 |
| Legend:   | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI  |
| Determined by Chemwatch using GHS/HSNO criteria | 6.1C (dermal), 6.5B (contact), 6.7B, 6.8B, 6.9B (inhalation), 8.2B, 8.3A, 9.1C, 9.1D, 9.3C  |

### Label elements

|                    |   |
|--------------------|---|
| GHS label elements |  |
|--------------------|---|

Multi-Gard 955CP Part B

SIGNAL WORD **DANGER**

**Hazard statement(s)**

|      |   |
|------|---|
| H311 | Toxic in contact with skin  |
| H314 | Causes severe skin burns and eye damage                           |
| H318 | Causes serious eye damage   |
| H317 | May cause an allergic skin reaction                               |
| H351 | Suspected of causing cancer                                       |
| H361 | Suspected of damaging fertility or the unborn child               |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H402 | Harmful to aquatic life   |
| H412 | Harmful to aquatic life with long lasting effects                 |
| H433 | Harmful to terrestrial vertebrates                                |

**Precautionary statement(s): Prevention**

|      |  |
|------|--|
| P201 | Obtain special instructions before use.                                    |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.                           |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P273 | Avoid release to the environment.  |
| P272 | Contaminated work clothing should not be allowed out of the workplace.     |

**Precautionary statement(s): Response**

|                |  |
|----------------|--|
| P301+P330+P331 | IF SWALLOWED: Rinse mouth.   |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing.      |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes.               |
| P308+P313      | IF exposed or concerned: Get medical advice/attention.                     |
| P310           | Immediately call a POISON CENTER/doctor/physician/first aider              |
| P321           | Specific treatment (see advice on this label).                             |
| P302+P352      | IF ON SKIN: Wash with plenty of water and soap                             |
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.           |
| P361+P364      | Take off immediately all contaminated clothing and wash it before reuse.   |
| P363           | Wash contaminated clothing before reuse.                                   |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |

**Precautionary statement(s): Storage**

|      |                  |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

**Precautionary statement(s): Disposal**

|      |  |
|------|--|
| P501 | Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration |
|------|--|

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

**Substances**

See section below for composition of Mixtures

**Mixtures**

| CAS No     | %[weight] | Name  |
|------------|-----------|---|
| 1317-65-3  | <40       | <a href="#">limestone</a>                                   |
| 1333-86-4  | <10       | <a href="#">carbon black</a>                                |
| 14808-60-7 | <1        | <a href="#">silica crystalline - quartz</a>                 |
| 770-35-4   | <1        | <a href="#">1-phenoxy-2-propanol</a>                        |
| 100-41-4   | <1        | <a href="#">ethylbenzene</a>                                |
| 68513-05-3 | <=40      | <a href="#">tall oil/ tetraethylenepentamine polyamides</a> |
| 98-82-8    | 0.1       | <a href="#">isopropyl benzene - cumene</a>                  |

**SECTION 4 FIRST AID MEASURES**

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

**Description of first aid measures**

|                    |   |
|--------------------|---|
| <b>Eye Contact</b> | If this product comes in contact with the eyes: |
|--------------------|---|

Continued..



## Multi-Gard 955CP Part B

|                     |  |
|---------------------|--|
|                     | <ul style="list-style-type: none"> <li>▶ Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>▶ Transport to hospital or doctor without delay.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>  |
| <b>Skin Contact</b> | <p>If skin or hair contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Immediately flush body and clothes with large amounts of water, using safety shower if available.</li> <li>▶ Quickly remove all contaminated clothing, including footwear.</li> <li>▶ Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.</li> <li>▶ Transport to hospital, or doctor.</li> </ul>   |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ If fumes or combustion products are inhaled remove from contaminated area.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor.</li> </ul>  |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li>▶ For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>▶ Urgent hospital treatment is likely to be needed.</li> <li>▶ <b>If swallowed do NOT induce vomiting.</b></li> <li>▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>▶ Observe the patient carefully.</li> <li>▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>▶ Transport to hospital or doctor without delay.</li> </ul> |

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

|  |   |
|--|---|
|  | <p>Treat symptomatically.</p> <p>For acute or short-term repeated exposures to highly alkaline materials:</p> <ul style="list-style-type: none"> <li>▶ Respiratory stress is uncommon but present occasionally because of soft tissue edema.</li> <li>▶ Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary.</li> <li>▶ Oxygen is given as indicated.</li> <li>▶ The presence of shock suggests perforation and mandates an intravenous line and fluid administration.</li> <li>▶ Damage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue.</li> </ul> <p>Alkalis continue to cause damage after exposure.</p> <p>INGESTION:</p> <ul style="list-style-type: none"> <li>▶ Milk and water are the preferred diluents</li> </ul> <p>No more than 2 glasses of water should be given to an adult.</p> <ul style="list-style-type: none"> <li>▶ Neutralising agents should never be given since exothermic heat reaction may compound injury.</li> </ul> <p>* Catharsis and emesis are absolutely contra-indicated.</p> <p>* Activated charcoal does not absorb alkali.</p> <p>* Gastric lavage should not be used.</p> <p>Supportive care involves the following:</p> <ul style="list-style-type: none"> <li>▶ Withhold oral feedings initially.</li> <li>▶ If endoscopy confirms transmucosal injury start steroids only within the first 48 hours.</li> <li>▶ Carefully evaluate the amount of tissue necrosis before assessing the need for surgical intervention.</li> <li>▶ Patients should be instructed to seek medical attention whenever they develop difficulty in swallowing (dysphagia).</li> </ul> <p>SKIN AND EYE:</p> <ul style="list-style-type: none"> <li>▶ Injury should be irrigated for 20-30 minutes.</li> </ul> <p>Eye injuries require saline. [Ellenhorn &amp; Barceloux: Medical Toxicology]</p> |
|--|---|

**SECTION 5 FIREFIGHTING MEASURES****Extinguishing media**

|  |   |
|--|---|
|  | <ul style="list-style-type: none"> <li>▶ Foam.</li> </ul> |
|--|---|

**Special hazards arising from the substrate or mixture**

|                             |  |
|-----------------------------|--|
| <b>Fire Incompatibility</b> | <ul style="list-style-type: none"> <li>▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result</li> </ul> |
|-----------------------------|--|

**Advice for firefighters**

|                              |   |
|------------------------------|---|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> </ul> |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Combustible.</li> </ul>  |

**SECTION 6 ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

|                     |  |
|---------------------|--|
| <b>Minor Spills</b> | Small spills should be covered with inorganic absorbents and disposed of properly. |
| <b>Major Spills</b> | Moderate hazard.   |

|  |   |
|--|---|
|  | Personal Protective Equipment advice is contained in Section 8 of the MSDS. |
|--|---|

**SECTION 7 HANDLING AND STORAGE**

**Precautions for safe handling**

|                          |   |
|--------------------------|---|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <li>▶ <b>DO NOT USE</b> brass or copper containers / stirrers</li> <li>▶ <b>DO NOT</b> allow clothing wet with material to stay in contact with skin</li> <li>▶ Avoid all personal contact, including inhalation.</li> </ul> |
| <b>Other information</b> | for bulk storages: <ul style="list-style-type: none"> <li>▶ If slight coloration of the ethyleneamine is acceptable, storage tanks may be made of carbon steel or black iron, provided they are free of rust and mill scale.</li> </ul>                         |

**Conditions for safe storage, including any incompatibilities**

|                                |  |
|--------------------------------|--|
| <b>Suitable container</b>      | <ul style="list-style-type: none"> <li>▶ <b>DO NOT</b> use aluminium, galvanised or tin-plated containers</li> <li>▶ Metal can or drum</li> <li>▶ Packaging as recommended by manufacturer.</li> </ul> |
| <b>Storage incompatibility</b> | ▶ Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.  |

**PACKAGE MATERIAL INCOMPATIBILITIES****SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters****OCCUPATIONAL EXPOSURE LIMITS (OEL)****INGREDIENT DATA**


| Source   | Ingredient                  | Material name              | TWA                         | STEL                    | Peak          | Notes  |
|--|-----------------------------|----------------------------|-----------------------------|-------------------------|---------------|--|
| New Zealand Workplace Exposure Standards (WES) | limestone                   | Calcium carbonate          | 10 (mg/m3)                  | Not Available           | Not Available | 2011 correction; The value for inhalable dust containing no asbestos and less than 1% free silica. |
| New Zealand Workplace Exposure Standards (WES) | carbon black                | Carbon black               | 3 (mg/m3)                   | Not Available           | Not Available | 2011 correction; Suspected carcinogen  |
| New Zealand Workplace Exposure Standards (WES) | silica crystalline - quartz | Silica-Crystalline, Quartz | 0.2 Respirable dust (mg/m3) | Not Available           | Not Available | Not Available  |
| New Zealand Workplace Exposure Standards (WES) | ethylbenzene                | Ethyl benzene              | 434 (mg/m3) / 100 (ppm)     | 543 (mg/m3) / 125 (ppm) | Not Available | Not Available  |
| New Zealand Workplace Exposure Standards (WES) | isopropyl benzene - cumene  | Cumene                     | 125 (mg/m3) / 25 (ppm)      | 375 (mg/m3) / 75 (ppm)  | Not Available | Skin absorption  |

**EMERGENCY LIMITS**

| Ingredient                  | TEEL-0   | TEEL-1       | TEEL-2        | TEEL-3         |
|-----------------------------|----------|--------------|---------------|----------------|
| limestone                   | 15(ppm)  | 45 / 30(ppm) | 75 / 500(ppm) | 350 / 500(ppm) |
| carbon black                | 3.5(ppm) | 10.5(ppm)    | 17.5(ppm)     | 500(ppm)       |
| silica crystalline - quartz | 0.3(ppm) | 0.3(ppm)     | 0.3(ppm)      | 50(ppm)        |
| ethylbenzene                | 100(ppm) | 125(ppm)     | 125(ppm)      | 800(ppm)       |
| isopropyl benzene - cumene  | 50(ppm)  | 50(ppm)      | 300(ppm)      | 730(ppm)       |

| Ingredient                  | Original IDLH       | Revised IDLH   |
|-----------------------------|---------------------|----------------|
| carbon black                | N.E.(mgm3)N.E.(ppm) | 1,750(mgm3)    |
| silica crystalline - quartz | N.E.(mgm3)N.E.(ppm) | 50(mgm3)       |
| ethylbenzene                | 2,000(ppm)          | 800 [LEL](ppm) |
| isopropyl benzene - cumene  | 8,000(ppm)          | 900 [LEL](ppm) |

**Exposure controls**

|   |  |
|---|--|
| <b>Appropriate engineering controls</b> | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.         |
| <b>Personal protection</b>              |                            |
| <b>Eye and face protection</b>          | Chemical goggles.  |
| <b>Skin protection</b>                  | See Hand protection below  |
| <b>Hand protection</b>                  | ▶ When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. |
| <b>Body protection</b>                  | See Other protection below   |
| <b>Other protection</b>                 | ▶ Overalls.  |
| <b>Thermal hazards</b>                  |  |

Recommended material(s)

Respiratory protection

## Multi-Gard 955CP Part B

## GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

Multi-Gard 955CP Part B Not Available

| Material | CPI |
|----------|-----|
|----------|-----|

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation.

Type AK-P Filter of sufficient capacity

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator   |
|------------------------------------|----------------------|----------------------|--------------------------|
| up to 5 x ES                       | AK-AUS / Class 1 P2  | -                    | AK-PAPR-AUS / Class 1 P2 |
| up to 25 x ES                      | Air-line*            | AK-2 P2              | AK-PAPR-2 P2             |
| up to 50 x ES                      | -                    | AK-3 P2              | -                        |
| 50+ x ES                           | -                    | Air-line**           | -                        |

\* - Continuous-flow; \*\* - Continuous-flow or positive pressure demand

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

|  |                      |   |               |
|--|----------------------|---|---------------|
| Appearance                                   | Dark-Characteristic- |   |               |
| Physical state                               | Liquid               | Relative density (Water = 1)            | 1.33          |
| Odour  | Not Available        | Partition coefficient n-octanol / water | Not Available |
| Odour threshold                              | Not Available        | Auto-ignition temperature (°C)          | Not Available |
| pH (as supplied)                             | Not Available        | Decomposition temperature               | Not Available |
| Melting point / freezing point (°C)          | Not Available        | Viscosity (cSt)                         | Not Available |
| Initial boiling point and boiling range (°C) | 80 - 168             | Molecular weight (g/mol)                | Not Available |
| Flash point (°C)                             | 96                   | Taste                                   | Not Available |
| Evaporation rate                             | > 1                  | Explosive properties                    | Not Available |
| Flammability                                 | Not Available        | Oxidising properties                    | Not Available |
| Upper Explosive Limit (%)                    | 7.1                  | Surface Tension (dyn/cm or mN/m)        | Not Available |
| Lower Explosive Limit (%)                    | 0.9                  | Volatile Component (%vol)               | Not Available |
| Vapour pressure (kPa)                        | Not Available        | Gas group                               | Not Available |
| Solubility in water (g/L)                    | Immiscible           | pH as a solution(1%)                    | Not Available |
| Vapour density (Air = 1)                     | > 1                  | VOC g/L                                 | Not Available |

## SECTION 10 STABILITY AND REACTIVITY

|                                    |                                       |
|------------------------------------|---------------------------------------|
| Reactivity                         | See section 7                         |
| Chemical stability                 | ► Presence of incompatible materials. |
| Possibility of hazardous reactions | See section 7                         |
| Conditions to avoid                | See section 7                         |
| Incompatible materials             | See section 7                         |
| Hazardous decomposition products   | See section 5                         |

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

|           |  |
|-----------|--|
| Inhaled   | The material is not thought to produce adverse health effects following inhalation (as classified by EC Directives using animal models). |
| Ingestion | The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion.                           |

## Multi-Gard 955CP Part B

|                     |  |
|---------------------|--|
| <b>Skin Contact</b> | Skin contact with the material may produce toxic effects; systemic effects may result following absorption.  |
| <b>Eye</b>          | The material can produce chemical burns to the eye following direct contact.   |
| <b>Chronic</b>      | On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment. |

| Multi-Gard 955CP Part B                     | TOXICITY   | IRRITATION  |
|---|--|---|
|   | Not Available                                      | Not Available   |
| limestone                                   | TOXICITY   | IRRITATION  |
|   | Oral (rat) LD50: 6450 mg/kg<br>Not Available       | Skin (rabbit): 500 mg/24h-moderate<br>Not Available                 |
| carbon black                                | TOXICITY   | IRRITATION  |
|   | Dermal (rabbit) LD50: >3000 mg/kg<br>Not Available | Not Available   |
| silica crystalline - quartz                 | TOXICITY   | IRRITATION  |
|   | Not Available                                      | Y<br>Not Available  |
| 1-phenoxy-2-propanol                        | TOXICITY   | IRRITATION  |
|   | Dermal (rabbit) LD50: >2000 mg/kg                  | No data   |
|   | Oral (rat) LD50: 2830 mg/kg<br>Not Available       | Not Available   |
| ethylbenzene                                | TOXICITY   | IRRITATION  |
|   | Dermal (rabbit) LD50: 17800 mg/kg                  | Eye (rabbit): 500 mg - SEVERE                                       |
|   | Intraperitoneal (mouse) LD50: 2642 mg/kg           | Skin (rabbit): 15 mg/24h mild                                       |
|   | Oral (rat) LD50: 3500 mg/kg<br>Not Available       | Not Available   |
| tall oil/ tetraethylenepentamine polyamides | TOXICITY   | IRRITATION  |
|   | Oral (rat) LD50: >5000 mg/kg                       | Eyes (rabbit) (-) moderate  |
|   | Not Available                                      | Skin (rabbit) (-) moderate<br>Not Available                         |
| isopropyl benzene - cumene                  | TOXICITY   | IRRITATION  |
|   | Dermal (rabbit) LD50: 12300 mg/kg                  | Eye (rabbit): 500 mg/24h mild                                       |
|   | Dermal (rabbit) LD50: 2000 mg/kg                   | Eye (rabbit): 86 mg mild  |
|   | Oral (rat) LD50: 1400 mg/kg                        | Skin (rabbit): 10 mg/24h mild<br>Skin (rabbit): 100 mg/24h moderate |
|   | Not Available                                      | Not Available   |

|   |  |
|---|--|
| <b>LIMESTONE</b>  | Eye (rabbit) 0.75: mg/24h - No evidence of carcinogenic properties. teratogenic effects.   |
| <b>CARBON BLACK</b>   | No significant acute toxicological data identified in literature search.<br>Inhalation (rat) TCLo: 50 mg/m <sup>3</sup> /6h/90D-I Nil reported   |
| <b>SILICA CRYSTALLINE - QUARTZ</b>  | <b>WARNING:</b> For inhalation exposure <u>ONLY</u> : This substance has been classified by the IARC as Group 1: <b>CARCINOGENIC TO HUMANS</b><br>The International Agency for Research on Cancer (IARC) has classified occupational exposures to <b>respirable</b> (<5 um) crystalline silica as being carcinogenic to humans . |
| <b>ETHYLBENZENE</b>   | Liver changes, uteral tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) recorded.  |
| <b>Multi-Gard 955CP Part B, TALL OIL/ TETRAETHYLENEPENTAMINE POLYAMIDES</b> | The following information refers to contact allergens as a group and may not be specific to this product.  |
| <b>LIMESTONE, ETHYLBENZENE</b>  | The material may produce severe irritation to the eye causing pronounced inflammation.   |

**1-PHENOXY-2-PROPANOL, ISOPROPYL  
BENZENE - CUMENE**

Asthma-like symptoms may continue for months or even years after exposure to the material ceases.

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity                    | ✓ | Carcinogenicity          | ✓ |
| Skin Irritation/Corrosion         | ✓ | Reproductivity           | ✓ |
| Serious Eye Damage/Irritation     | ✓ | STOT - Single Exposure   | ⊘ |
| Respiratory or Skin sensitisation | ✓ | STOT - Repeated Exposure | ✓ |
| Mutagenicity                      | ⊘ | Aspiration Hazard        | ⊘ |

**CMR STATUS**

|             |                            |   |                 |
|-------------|----------------------------|---|-----------------|
| <b>SKIN</b> | isopropyl benzene - cumene | New Zealand Workplace Exposure Standards (WES) - Skin | Skin absorption |
|-------------|----------------------------|---|-----------------|

**SECTION 12 ECOLOGICAL INFORMATION****Toxicity**

Harmful to aquatic organisms.

**Persistence and degradability**

| Ingredient    | Persistence: Water/Soil | Persistence: Air |
|---------------|-------------------------|------------------|
| Not Available | Not Available           | Not Available    |

**Bioaccumulative potential**

| Ingredient    | Bioaccumulation |
|---------------|-----------------|
| Not Available | Not Available   |

**Mobility in soil**

| Ingredient    | Mobility      |
|---------------|---------------|
| Not Available | Not Available |

**SECTION 13 DISPOSAL CONSIDERATIONS****Waste treatment methods**

|                                     |  |
|-------------------------------------|--|
| <b>Product / Packaging disposal</b> | ▶ Containers may still present a chemical hazard/ danger when empty.   |
|                                     | Insure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001. |

**SECTION 14 TRANSPORT INFORMATION****Labels Required**

|                         |                |
|-------------------------|----------------|
| <b>Marine Pollutant</b> | NO             |
| <b>HAZCHEM</b>          | Not Applicable |

**Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS****Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS****Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS****SECTION 15 REGULATORY INFORMATION****Safety, health and environmental regulations / legislation specific for the substance or mixture**

This substance is to be managed using the conditions specified in an applicable Group Standard

| HSR Number | Group Standard   |
|------------|--|
| HSR002673  | Surface Coatings and Colourants (Toxic [6.1 + 6.7], Corrosive) Group Standard 2006 |

**limestone(1317-65-3) is found on the  
following regulatory lists**

"New Zealand Inventory of Chemicals (NZIoC)", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "OECD List of High Production Volume (HPV) Chemicals", "New Zealand Workplace Exposure Standards (WES)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "FisherTransport Information", "Sigma-AldrichTransport Information", "Acros Transport Information", "CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP", "International Numbering System for Food Additives", "International Council of Chemical Associations (ICCA) - High Production Volume List", "New Zealand Cosmetic Products Group Standard - Schedule 6 Colouring Agents Cosmetic Products May Contain With Restrictions - Table 2: Additional List of Colouring Agents Allowed for Use in Cosmetic Products in New Zealand", "New Zealand Cosmetic Products Group Standard - Schedule 6 Colouring Agents Cosmetic Products May Contain With Restrictions- Table 1: List fo Colouring Agents Allowed for use in Cosmetic Products", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act -

|   |   |
|---|---|
|   | Classification of Chemicals - Classification Data"  |
| <b>carbon black(1333-86-4) is found on the following regulatory lists</b>                                 | "New Zealand Workplace Exposure Standards (WES)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)", "OECD Existing Chemicals Database", "Sigma-AldrichTransport Information", "Acros Transport Information", "New Zealand Inventory of Chemicals (NZIoC)", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs", "International Numbering System for Food Additives", "International Council of Chemical Associations (ICCA) - High Production Volume List", "OECD List of High Production Volume (HPV) Chemicals", "New Zealand Cosmetic Products Group Standard - Schedule 6 Colouring Agents Cosmetic Products May Contain With Restrictions- Table 1: List to Colouring Agents Allowed for use in Cosmetic Products", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data"  |
| <b>silica crystalline - quartz(14808-60-7) is found on the following regulatory lists</b>                 | "New Zealand Workplace Exposure Standards (WES)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)", "OECD Existing Chemicals Database", "United Nations Consolidated List of Products Whose Consumption and/or Sale Have Been Banned, Withdrawn, Severely Restricted or Not Approved by Governments", "FisherTransport Information", "Sigma-AldrichTransport Information", "New Zealand Inventory of Chemicals (NZIoC)", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs", "OECD List of High Production Volume (HPV) Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data"  |
| <b>1-phenoxy-2-propanol(770-35-4) is found on the following regulatory lists</b>                          | "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)", "OECD Existing Chemicals Database", "FisherTransport Information", "Sigma-AldrichTransport Information", "New Zealand Inventory of Chemicals (NZIoC)", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "International Council of Chemical Associations (ICCA) - High Production Volume List", "OECD List of High Production Volume (HPV) Chemicals", "New Zealand Cosmetic Products Group Standard - Schedule 7: Preservatives Cosmetic Products May Contain With Restrictions - Table 1: List of Preservatives Allowed", "New Zealand Cosmetic Products Group Standard - Schedule 5 - Table 1: Components Cosmetic Products Must Not Contain Except Subject to the Restrictions and Conditions Laid Down", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data", "OSPAR National List of Candidates for Substitution – Norway"   |
| <b>ethylbenzene(100-41-4) is found on the following regulatory lists</b>                                  | "New Zealand Workplace Exposure Standards (WES)", "OECD Existing Chemicals Database", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Dangerous Goods", "WHO Guidelines for Drinking-water Quality - Guideline values for chemicals that are of health significance in drinking-water", "IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "FisherTransport Information", "Sigma-AldrichTransport Information", "New Zealand Inventory of Chemicals (NZIoC)", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs", "UNECE - Kiev Protocol on Pollutant Release and Transfer Registers - Annex II", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "OECD List of High Production Volume (HPV) Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data", "Belgium Federal Public Service Mobility and Transport, Regulations concerning the International Carriage of Dangerous Goods by Rail - Table A: Dangerous Goods List - RID 2013 (Dutch)", "International Maritime Dangerous Goods Requirements (IMDG Code) - Substance Index", "International Air Transport Association (IATA) Dangerous Goods Regulations", "International Maritime Dangerous Goods Requirements (IMDG Code)", "OSPAR List of Chemicals for Priority Action" |
| <b>tall oil/ tetraethylenepentamine polyamides(68513-05-3) is found on the following regulatory lists</b> | "New Zealand Inventory of Chemicals (NZIoC)", "Belgium Federal Public Service Mobility and Transport, Regulations concerning the International Carriage of Dangerous Goods by Rail - Table A: Dangerous Goods List - RID 2013 (Dutch)", "International Maritime Dangerous Goods Requirements (IMDG Code) - Substance Index", "International Air Transport Association (IATA) Dangerous Goods Regulations", "International Maritime Dangerous Goods Requirements (IMDG Code)", "OSPAR National List of Candidates for Substitution – United Kingdom", "OECD List of High Production Volume (HPV) Chemicals"  |
| <b>isopropyl benzene - cumene(98-82-8) is found on the following regulatory lists</b>                     | "New Zealand Workplace Exposure Standards (WES)", "OECD Existing Chemicals Database", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Dangerous Goods", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "Sigma-AldrichTransport Information", "Acros Transport Information", "New Zealand Inventory of Chemicals (NZIoC)", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs", "OECD List of High Production Volume (HPV) Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data", "Belgium Federal Public Service Mobility and Transport, Regulations concerning the International Carriage of Dangerous Goods by Rail - Table A: Dangerous Goods List - RID 2013 (Dutch)", "International Maritime Dangerous Goods Requirements (IMDG Code) - Substance Index", "International Air Transport Association (IATA) Dangerous Goods Regulations", "International Maritime Dangerous Goods Requirements (IMDG Code)", "OSPAR List of Chemicals for Priority Action", "IMO IBC Code Chapter 17: Summary of minimum requirements", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)"  |

## SECTION 16 OTHER INFORMATION

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

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