

# Carboguard 510SG Part A

Altex Coatings Ltd

Chemwatch: 9-42489

Version No: 1.4

Safety Data Sheet according to HSNO Regulations

Chemwatch Hazard Alert Code: 3

Issue Date: 11/12/2013

Print Date: 10/01/2014

S.GHS.NZL.EN

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

### Product Identifier

|                               |   |
|-------------------------------|---|
| Product name                  | Carboguard 510SG Part A                             |
| Chemical Name                 | Not Applicable                                      |
| Synonyms                      | Not Available                                       |
| Proper shipping name          | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| 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                 | New Zealand             |
| Telephone               | +64 7 5411221           |
| Fax                     | +64 7 5411310           |
| Website                 | www.altexcoatings.co.nz |
| Email                   | Not Available           |

### Emergency telephone number

|                                   |               |
|-----------------------------------|---------------|
| Association / Organisation        | Not Available |
| 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>               | Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Skin Sensitizer Category 1, Carcinogen 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), 6.7A, 6.9B (inhalation), 9.1B, 9.1D   |

### Label elements

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

|             |        |
|-------------|--------|
| SIGNAL WORD | DANGER |
|-------------|--------|

### Hazard statement(s)

|      |   |
|------|---|
| H315 | Causes skin irritation  |
| H319 | Causes serious eye irritation                                     |
| H317 | May cause an allergic skin reaction                               |
| H350 | May cause cancer  |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H401 | Toxic to aquatic life   |
| H411 | Toxic to aquatic life with long lasting effects                   |

**Supplementary statement(s)**

Not Applicable

**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**

|                |  |
|----------------|--|
| P308+P313      | IF exposed or concerned: Get medical advice/attention.           |
| P321           | Specific treatment (see advice on this label).                   |
| P302+P352      | IF ON SKIN: Wash with plenty of water and soap                   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes.     |
| P314           | Get medical advice/attention if you feel unwell.                 |
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention. |
| P337+P313      | If eye irritation persists: Get medical advice/attention.        |
| P362+P364      | Take off contaminated clothing and wash it before reuse.         |
| P391           | Collect spillage.  |

**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   |
|------------|-----------|--|
| 25068-38-6 | 70-80     | <a href="#">bisphenol A/ epichlorohydrin resin</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. 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**

carbon dioxide (CO2)

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

Environmental hazard - contain spillage.

**Major Spills**

► Clear area of personnel and move upwind.

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

**SECTION 7 HANDLING AND STORAGE****Precautions for safe handling****Safe handling**

► Avoid all personal contact, including inhalation.

**Other information**

► Store in original containers.

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

► Polyethylene or polypropylene container.

**Storage incompatibility**

Glycidyl ethers:



X



X



+



X



X



+

X — Must not be stored together

0 — May be stored together with specific precautions

+ — May be stored together

**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 | 125 / 50 / 4(ppm) | 350 / 150 / 12.5(ppm) | 500 / 100(ppm) | 500(ppm) |

| Ingredient              | Original IDLH | Revised IDLH  |
|-------------------------|---------------|---------------|
| Carboguard 510SG 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.

|                         |  |
|-------------------------|--|
| <b>Skin protection</b>  | See Hand protection below  |
| <b>Hand protection</b>  | <b>NOTE:</b>   |
| <b>Body protection</b>  | See Other protection below   |
| <b>Other protection</b> | <ul style="list-style-type: none"> <li>Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area.</li> </ul> |
| <b>Thermal hazards</b>  |  |

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

Glove selection is based on a modified presentation of the:  
Carboguard 510SG Part A Not Available

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

\* CPI - Chemwatch Performance Index

**Respiratory protection**

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>                                   | Not Available  |  |               |
| <b>Physical state</b>                               | Liquid         | <b>Relative density (Water = 1)</b>            | 1.10          |
| <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> | 100            | <b>Molecular weight (g/mol)</b>                | Not Available |
| <b>Flash point (°C)</b>                             | Not Applicable | <b>Taste</b>                                   | Not Available |
| <b>Evaporation rate</b>                             | > 1            | <b>Explosive properties</b>                    | Not Available |
| <b>Flammability</b>                                 | Not Available  | <b>Oxidising properties</b>                    | Not Available |
| <b>Upper Explosive Limit (%)</b>                    | Not Available  | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Available |
| <b>Lower Explosive Limit (%)</b>                    | Not Available  | <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>                     | >1             | <b>VOC g/L</b>                                 | Not Available |

**SECTION 10 STABILITY AND REACTIVITY**

|   |   |
|---|---|
| <b>Reactivity</b>                         | See section 7   |
| <b>Chemical stability</b>                 | <ul style="list-style-type: none"> <li>Presence of incompatible materials.</li> </ul> |
| <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>Skin Contact</b> | The material produces moderate skin irritation; evidence exists, or practical experience predicts, that the material either   |
| <b>Eye</b>          | Evidence exists, or practical experience predicts, that the material may cause severe 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.  |

| Carboguard 510SG Part A | TOXICITY      | IRRITATION    |
|-------------------------|---------------|---------------|
|                         | Not Available | Not Available |

| bisphenol A/ epichlorohydrin resin | TOXICITY                                 | IRRITATION                  |
|------------------------------------|--|-----------------------------|
|                                    | Intraperitoneal (mouse) LD50: 4000 mg/kg | Eye (rabbit): 100 mg - mild |
|                                    | Intraperitoneal (rat) LD50: 2400 mg/kg   | Nil reported                |
|                                    | Oral (mouse) LD50: 15600 mg/kg           |                             |
|                                    | Oral (rat) LD50: 11400 mg/kg             |                             |
|                                    | Oral (rat) LD50: 13600 mg/kg             |                             |
|                                    | Not Available                            | Not Available               |

|  |  |
|--|--|
| <b>BISPHENOL A/ EPICHLOROHYDRIN RESIN</b>                          | for RTECS No: SL 6475000: (liquid grade) Equivocal tumourigen by RTECS criteria Somnolence, dyspnea, peritonitis |
| <b>Carboguard 510SG Part A, BISPHENOL A/ EPICHLOROHYDRIN RESIN</b> | The following information refers to contact allergens as a group and may not be specific to this product.        |

|  |                                      |                                 |                       |
|--|--------------------------------------|---------------------------------|-----------------------|
| <b>Acute Toxicity</b>                    | Not Applicable                       | <b>Carcinogenicity</b>          | Carcinogen Category 1 |
| <b>Skin Irritation/Corrosion</b>         | Skin Corrosion/Irritation Category 2 | <b>Reproductivity</b>           | Not Applicable        |
| <b>Serious Eye Damage/Irritation</b>     | Eye Irritation Category 2A           | <b>STOT - Single Exposure</b>   | Not Applicable        |
| <b>Respiratory or Skin sensitisation</b> | Skin Sensitizer Category 1           | <b>STOT - Repeated Exposure</b> | STOT - RE Category 2  |
| <b>Mutagenicity</b>                      | Not Applicable                       | <b>Aspiration Hazard</b>        | Not Applicable        |

## 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

|                  |   |
|------------------|---|
|                  |  |
| Marine Pollutant |  |
| HAZCHEM          | *3Z   |

## Land transport (UN)

|                              |  |
|------------------------------|--|
| UN number                    | 3082   |
| Packing group                | III  |
| UN proper shipping name      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.        |
| Environmental hazard         | No relevant data   |
| Transport hazard class(es)   | Class 9<br>Subrisk   |
| Special precautions for user | Special provisions 274;331;335;375<br>limited quantity 5 L |

## Air transport (ICAO-IATA / DGR)

|                              |  |
|------------------------------|--|
| UN number                    | 3082   |
| Packing group                | III  |
| UN proper shipping name      | Environmentally hazardous substance, liquid, n.o.s. *  |
| Environmental hazard         | No relevant data   |
| Transport hazard class(es)   | ICAO/IATA Class 9<br>ICAO / IATA Subrisk<br>ERG Code 9L  |
| Special precautions for user | Special provisions A97A158<br>Cargo Only Packing Instructions 964<br>Cargo Only Maximum Qty / Pack 450 L<br>Passenger and Cargo Packing Instructions 964<br>Passenger and Cargo Maximum Qty / Pack 450 L<br>Passenger and Cargo Limited Quantity Packing Instructions Y964<br>Passenger and Cargo Maximum Qty / Pack 30 kg G |

## Sea transport (IMDG-Code / GGVSee)

|                              |  |
|------------------------------|--|
| UN number                    | 3082   |
| Packing group                | III  |
| UN proper shipping name      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                        |
| Environmental hazard         | No relevant data   |
| Transport hazard class(es)   | IMDG Class 9<br>IMDG Subrisk   |
| Special precautions for user | EMS Number F-A,S-F<br>Special provisions 274 335<br>Limited Quantities 5 L |

## 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 |
|------------|----------------|

HSR002679

Surface Coatings and Colourants (Toxic [6.7]) Group Standard 2006

**bisphenol A/ epichlorohydrin resin(25068-38-6) is found on the following regulatory lists**

"New Zealand Inventory of Chemicals (NZIoC)", "OECD List of High Production Volume (HPV) Chemicals", "Sigma-Aldrich Transport Information", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)", "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", "New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits", "International Air Transport Association (IATA) Dangerous Goods Regulations", "International Maritime Dangerous Goods Requirements (IMDG Code)", "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"

## 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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# Carboguard 510SG Part B

Altex Coatings Ltd

Chemwatch: 9-42491

Version No: 1.3

Safety Data Sheet according to HSNO Regulations

Chemwatch Hazard Alert Code: 3

Issue Date: 11/12/2013

Print Date: 10/01/2014

S.GHS.NZLEN

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

### Product Identifier

|                               |                         |
|-------------------------------|-------------------------|
| Product name                  | Carboguard 510SG Part B |
| Chemical Name                 | Not Applicable          |
| Synonyms                      | Not Available           |
| 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                 | New Zealand             |
| Telephone               | +64 7 5411221           |
| Fax                     | +64 7 5411310           |
| Website                 | www.altexcoatings.co.nz |
| Email                   | Not Available           |

### Emergency telephone number

|                                   |               |
|-----------------------------------|---------------|
| Association / Organisation        | Not Available |
| 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>               | Skin Corrosion/Irritation Category 1B, Serious Eye Damage Category 1, Carcinogen Category 1, STOT - RE 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 | 6.7A, 6.9B, 8.2B, 8.3A   |

### Label elements

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

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

### Hazard statement(s)

|      |   |
|------|---|
| H314 | Causes severe skin burns and eye damage |
|------|---|



|      |   |
|------|---|
| H318 | Causes serious eye damage   |
| H350 | May cause cancer  |
| H373 | May cause damage to organs through prolonged or repeated exposure |

**Supplementary statement(s)**

Not Applicable

**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. |

**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).                             |
| 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   |
|------------|-----------|--|
| 64-19-7    | <=10      | <a href="#">acetic acid glacial</a>                                      |
| 64741-89-5 | 0.1       | <a href="#">paraffinic distillate, light, solvent-refined (mild)</a>     |
| 68410-23-1 | 0.1       | <a href="#">C18 fatty acid dimers/ tetraethylenepentamine polyamides</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>▶ 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> </ul>   |

- ▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- ▶ Transport to hospital or doctor without delay.

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

Treat symptomatically.

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

- ▶ Water spray or fog.

**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**

- ▶ Remove all ignition sources.

**Major Spills**

- ▶ Clear area of personnel and move upwind.

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

**SECTION 7 HANDLING AND STORAGE****Precautions for safe handling****Safe handling**

- ▶ Avoid all personal contact, including inhalation.

**Other information**

- ▶ Store in original containers.

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

- ▶ Lined metal can, lined metal pail/ can.

**Storage incompatibility**

- ▶ Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air.



X



X



+



X



X



+

X — Must not be stored together

0 — May be stored together with specific precautions

+ — May be stored together

**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) | acetic acid glacial                                  | Acetic acid       | 25 (mg/m <sup>3</sup> ) / 10 (ppm) | 37 (mg/m <sup>3</sup> ) / 15 (ppm) | Not Available | Not Available                                     |
| New Zealand Workplace Exposure Standards (WES) | paraffinic distillate, light, solvent-refined (mild) | Oil mist, mineral | 5 (mg/m <sup>3</sup> )             | 10 (mg/m <sup>3</sup> )            | Not Available | Sampled by a method that does not collect vapour. |


**EMERGENCY LIMITS**

| Ingredient  | TEEL-0  | TEEL-1  | TEEL-2  | TEEL-3   |
|---|---------|---------|---------|----------|
| acetic acid glacial   | 5(ppm)  | 5(ppm)  | 35(ppm) | 250(ppm) |
| C18 fatty acid dimers/<br>tetraethylenepentamine polyamides | 10(ppm) | 30(ppm) | 50(ppm) | 250(ppm) |

| Ingredient | Original IDLH | Revised IDLH |
|------------|---------------|--------------|
|------------|---------------|--------------|

|                     |            |         |
|---------------------|------------|---------|
| acetic acid glacial | 1,000(ppm) | 50(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>                  | ► Wear chemical protective gloves, e.g. PVC.   |
| <b>Body protection</b>                  | See Other protection below   |
| <b>Other protection</b>                 | ► Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. |
| <b>Thermal hazards</b>                  |  |

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

Glove selection is based on a modified presentation of the: Carboguard 510SG Part B Not Available

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

\* CPI - Chemwatch Performance Index

**Respiratory protection**

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                      | AB-AUS P2            | -                    | AB-PAPR-AUS / Class 1 P2 |
| up to 50 x ES                      | -                    | AB-AUS / Class 1 P2  | -                        |
| up to 100 x ES                     | -                    | AB-2 P2              | AB-PAPR-2 P2<br>^        |

^ - 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**

|   |               |  |               |
|---|---------------|--|---------------|
| <b>Appearance</b>                                   | Not Available |  |               |
| <b>Physical state</b>                               | Liquid        | <b>Relative density (Water = 1)</b>            | 1.00          |
| <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> | 117           | <b>Molecular weight (g/mol)</b>                | Not Available |
| <b>Flash point (°C)</b>                             | Not Available | <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>                    | Not Available | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Available |
| <b>Lower Explosive Limit (%)</b>                    | Not Available | <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>                    | Miscible      | <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 has  |
| <b>Ingestion</b>    | The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion.  |
| <b>Skin Contact</b> | The material can produce chemical burns following direct contact with the skin.   |
| <b>Eye</b>          | The material can produce chemical burns to the eye following direct contact.  |
| <b>Chronic</b>      | Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. |

|   | TOXICITY  | IRRITATION                                     |
|---|---|--|
| <b>Carboguard 510SG Part B</b>                                      | Not Available   | Not Available                                  |
| <b>acetic acid glacial</b>  | Not Available   | Skin (human):50mg/24hr - mild<br>Not Available |
| <b>paraffinic distillate, light, solvent-refined (mild)</b>         | Dermal (rabbit) LD50: >5000 mg/kg<br>Oral (rat) LD50: >15000 mg/kg<br>Not Available   | Not Available                                  |
| <b>C18 fatty acid dimers/<br/>tetraethylenepentamine polyamides</b> | Dermal (rat) LD50: >5000 mg/kg *<br>Oral (rabbit) LD50: 800 mg/kg **<br>Not Available | * [Epoxy]lite<br>Not Available                 |

|  |   |
|--|---|
| <b>Carboguard 510SG Part B</b>   | No significant acute toxicological data identified in literature search.  |
| <b>ACETIC ACID GLACIAL</b>   | Unreport (man) LDLo: 308 mg/kg Skin (rabbit):525mg (open)-SEVERE Oral (rat) LD50: 3310 mg/kg Eye (rabbit): 0.05mg (open)-SEVERE Inhalation (human) TCLo: 816 ppm/3 min Inhalation (rat) LCLo: 16000 ppm/4 hr Dermal (rabbit) LD50: 1060 mg/kg |
| <b>PARAFFINIC DISTILLATE, LIGHT, SOLVENT-REFINED (MILD)</b>                                      | The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives;  |
| <b>C18 FATTY ACID DIMERS/<br/>TETRAETHYLENEPENTAMINE<br/>POLYAMIDES</b>                          | **[Valspar]   |
| <b>ACETIC ACID GLACIAL, C18 FATTY<br/>ACID DIMERS/<br/>TETRAETHYLENEPENTAMINE<br/>POLYAMIDES</b> | Asthma-like symptoms may continue for months or even years after exposure to the material ceases.   |

|  |                                       |                                 |                       |
|--|---------------------------------------|---------------------------------|-----------------------|
| <b>Acute Toxicity</b>                    | Not Applicable                        | <b>Carcinogenicity</b>          | Carcinogen Category 1 |
| <b>Skin Irritation/Corrosion</b>         | Skin Corrosion/Irritation Category 1B | <b>Reproductivity</b>           | Not Applicable        |
| <b>Serious Eye Damage/Irritation</b>     | Serious Eye Damage Category 1         | <b>STOT - Single Exposure</b>   | Not Applicable        |
| <b>Respiratory or Skin sensitisation</b> | Not Applicable                        | <b>STOT - Repeated Exposure</b> | STOT - RE Category 2  |
| <b>Mutagenicity</b>                      | Not Applicable                        | <b>Aspiration Hazard</b>        | Not Applicable        |

## CMR STATUS

## SECTION 12 ECOLOGICAL INFORMATION

**Toxicity**

Acetic acid and its salts (the acetates) can be grouped together because of their close structural relationships, their natural occurrence in plants and animals, and their fundamental role in cell metabolism, particularly in the tricarboxylic acid cycle (also known as the citric acid or Krebs's cycle), which is where humans get their energy.

**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**

| Product / Packaging disposal |  |
|------------------------------|--|
|                              | 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**

| Marine Pollutant: NO |                |
|----------------------|----------------|
| HAZCHEM              | 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   |
|------------|--|
| HSR002660  | Surface Coatings and Colourants (Corrosive, Toxic [6.7]) Group Standard 2006 |

|   |   |
|---|---|
| acetic acid glacial(64-19-7) 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", "IMO IBC Code Chapter 17: Summary of minimum requirements", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Scheduled Toxic Substances", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Dangerous Goods", "OECD List of High Production Volume (HPV) Chemicals", "International Numbering System for Food Additives", "International Council of Chemical Associations (ICCA) - High Production Volume List", "International Fragrance Association (IFRA) Survey: Transparency List", "IOFI Global Reference List of Chemically Defined Substances", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP", "FisherTransport Information", "Sigma-AldrichTransport Information", "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", "New Zealand Workplace Exposure Standards (WES)", "International Air Transport Association (IATA) Dangerous Goods Regulations", "International Maritime Dangerous Goods Requirements (IMDG Code)", "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", "OSPAR National List of Candidates for Substitution - Norway" |
| paraffinic distillate, light, solvent-refined (mild)(64741-89-5) is found on the following regulatory lists     | "New Zealand Inventory of Chemicals (NZIoC)", "OECD List of High Production Volume (HPV) Chemicals", "International Chemical Secretariat (ChemSec) SIN List (*Substitute It Now!)", "New Zealand Cosmetic Products Group Standard - Schedule 4: Components Cosmetic Products Must Not Contain - Table 1", "International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs", "International Fragrance Association (IFRA) Survey: Transparency List", "New Zealand Workplace Exposure Standards (WES)"   |
| C18 fatty acid dimers/ tetraethylenepentamine polyamides(68410-23-1) is found on the following regulatory lists | "New Zealand Inventory of Chemicals (NZIoC)", "OECD List of High Production Volume (HPV) Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)", "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", "International Numbering System for Food Additives", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Veterinary Medicines", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Pesticides"  |

**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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# Carboguard 510SG Part C/D

Altex Coatings Ltd

Chemwatch: 9-42494

Version No: 1.3

Safety Data Sheet according to HSNO Regulations

Chemwatch Hazard Alert Code: 3

Issue Date: 11/12/2013

Print Date: 10/01/2014

S.GHS.NZLEN

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

### Product Identifier

|                               |                           |
|-------------------------------|---------------------------|
| Product name                  | Carboguard 510SG Part C/D |
| Chemical Name                 | Not Applicable            |
| Synonyms                      | Not Available             |
| 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                 | New Zealand             |
| Telephone               | +64 7 5411221           |
| Fax                     | +64 7 5411310           |
| Website                 | www.altexcoatings.co.nz |
| Email                   | Not Available           |

### Emergency telephone number

|                                   |               |
|-----------------------------------|---------------|
| Association / Organisation        | Not Available |
| 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>               | Skin Corrosion/Irritation Category 1B, Serious Eye Damage Category 1, Skin Sensitizer Category 1, Carcinogen Category 1, STOT - RE 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 | 6.5B (contact), 6.7A, 6.9B, 8.2B, 8.3A  |

### Label elements

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

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

### Hazard statement(s)

|      |   |
|------|---|
| H314 | Causes severe skin burns and eye damage |
|------|---|

|      |   |
|------|---|
| H318 | Causes serious eye damage   |
| H317 | May cause an allergic skin reaction                               |
| H350 | May cause cancer  |
| H373 | May cause damage to organs through prolonged or repeated exposure |

**Supplementary statement(s)**

Not Applicable

**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. |
| 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.           |
| P362+P364      | Take off 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                            |
|-------------|-----------|---------------------------------|
| 14808-60-7. | <75       | <a href="#">graded sand</a>     |
| 65997-15-1  | <30       | <a href="#">portland cement</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>▶ 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>  |



## Carboguard 510SG Part C/D

### Ingestion

- For advice, contact a Poisons Information Centre or a doctor at once.
- Urgent hospital treatment is likely to be needed.
- **If swallowed do NOT induce vomiting.**
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Transport to hospital or doctor without delay.

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

Treat symptomatically.

For acute or short term repeated exposures to dichromates and chromates:

- Absorption occurs from the alimentary tract and lungs.
- The kidney excretes about 60% of absorbed chromate within 8 hours of ingestion. Urinary excretion may take up to 14 days.
- Establish airway, breathing and circulation. Assist ventilation.
- Induce emesis with Ipecac Syrup if patient is not convulsing, in coma or obtunded and if the gag reflex is present.
- Otherwise use gastric lavage with endotracheal intubation.
- Fluid balance is critical. Peritoneal dialysis, haemodialysis or exchange transfusion may be effective although available data is limited.
- British Anti-Lewisite, ascorbic acid, folic acid and EDTA are probably not effective.
- There are no antidotes.
- Primary irritation, including chrome ulceration, may be treated with ointments comprising calcium-sodium-EDTA. This, together with the use of frequently renewed dressings, will ensure rapid healing of any ulcer which may develop.

The mechanism of action involves the reduction of Cr (VI) to Cr(III) and subsequent chelation; the irritant effect of Cr(III)/ protein complexes is thus avoided. [ILO Encyclopedia]

[Ellenhorn and Barceloux: Medical Toxicology]

For acute or short-term repeated exposures to highly alkaline materials:

- Respiratory stress is uncommon but present occasionally because of soft tissue edema.
- Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary.
- Oxygen is given as indicated.
- The presence of shock suggests perforation and mandates an intravenous line and fluid administration.
- Damage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue.

Alkalis continue to cause damage after exposure.

INGESTION:

- Milk and water are the preferred diluents

No more than 2 glasses of water should be given to an adult.

- Neutralising agents should never be given since exothermic heat reaction may compound injury.

\* Catharsis and emesis are absolutely contra-indicated.

\* Activated charcoal does not absorb alkali.

\* Gastric lavage should not be used.

Supportive care involves the following:

- Withhold oral feedings initially.
- If endoscopy confirms transmucosal injury start steroids only within the first 48 hours.
- Carefully evaluate the amount of tissue necrosis before assessing the need for surgical intervention.
- Patients should be instructed to seek medical attention whenever they develop difficulty in swallowing (dysphagia).

SKIN AND EYE:

- Injury should be irrigated for 20-30 minutes.

Eye injuries require saline. [Ellenhorn & Barceloux: Medical Toxicology]

## SECTION 5 FIREFIGHTING MEASURES

### Extinguishing media

- There is no restriction on the type of extinguisher which may be used.

### Special hazards arising from the substrate or mixture

#### Fire Incompatibility

None known.

### Advice for firefighters

#### Fire Fighting

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

#### Fire/Explosion Hazard

- Non combustible.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### Minor Spills

- Clean up waste regularly and abnormal spills immediately.

#### Major Spills

- Clear area of personnel and move upwind.

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>     | ► Avoid all personal contact, including inhalation. |
| <b>Other information</b> | ► Store in original containers.                     |

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

|                                |   |
|--------------------------------|---|
| <b>Suitable container</b>      | Multi-ply paper bag with sealed plastic liner or heavy gauge plastic bag. |
| <b>Storage incompatibility</b> | For aluminas (aluminium oxide):   |



- X — Must not be stored together  
 0 — May be stored together with specific precautions  
 + — May be stored together

**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) | graded sand     | Silica-Crystalline, Quartz | 0.2 Respirable dust (mg/m <sup>3</sup> ) | Not Available | Not Available | Not Available   |
| New Zealand Workplace Exposure Standards (WES) | portland cement | Portland cement            | 10 (mg/m <sup>3</sup> )                  | Not Available | Not Available | The value for inhalable dust containing no asbestos and less than 1% free silica. |

**EMERGENCY LIMITS**

| Ingredient  | TEEL-0   | TEEL-1   | TEEL-2   | TEEL-3  |
|-------------|----------|----------|----------|---------|
| graded sand | 0.3(ppm) | 0.3(ppm) | 0.3(ppm) | 50(ppm) |

| Ingredient      | Original IDLH                    | Revised IDLH             |
|-----------------|----------------------------------|--------------------------|
| graded sand     | N.E.(mgm <sup>3</sup> )N.E.(ppm) | 50(mgm <sup>3</sup> )    |
| portland cement | N.E.(mgm <sup>3</sup> )N.E.(ppm) | 5,000(mgm <sup>3</sup> ) |

**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>                  | <b>NOTE:</b>   |
| <b>Body protection</b>                  | See Other protection below   |
| <b>Other protection</b>                 | ► Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. |
| <b>Thermal hazards</b>                  |  |

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

Glove selection is based on a modified presentation of the:  
 Carboguard 510SG Part C/D Not Available

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

\* CPI - Chemwatch Performance Index

**Respiratory protection**

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|------------------------|
| up to 10 x ES                      | P1 Air-line*         | -                    | PAPR-P1                |
| up to 50 x ES                      | Air-line**           | P2                   | PAPR-P2                |
| up to 100 x ES                     | -                    | P3                   | -                      |
|                                    |                      | Air-line*            | -                      |
| 100+ x ES                          | -                    | Air-line**           | PAPR-P3                |

\* - Negative pressure demand \*\* - Continuous flow  
 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

|  |               |   |               |
|--|---------------|---|---------------|
| Appearance                                   | Not Available |   |               |
| Physical state                               | Divided Solid | Relative density (Water = 1)            | 2.76          |
| 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) | Not Available | Molecular weight (g/mol)                | Not Available |
| Flash point (°C)                             | Not Available | Taste                                   | Not Available |
| Evaporation rate                             | Not Available | Explosive properties                    | Not Available |
| Flammability                                 | Not Available | Oxidising properties                    | Not Available |
| Upper Explosive Limit (%)                    | Not Available | Surface Tension (dyn/cm or mN/m)        | Not Available |
| Lower Explosive Limit (%)                    | Not Available | Volatile Component (%vol)               | Not Available |
| Vapour pressure (kPa)                        | Not Available | Gas group                               | Not Available |
| Solubility in water (g/L)                    | Not Available | pH as a solution(1%)                    | Not Available |
| Vapour density (Air = 1)                     | Not Available | 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      | Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual.                               |
| Ingestion    | The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion.  |
| Skin Contact | The material can produce chemical burns following direct contact with the skin.   |
| Eye          | The material can produce chemical burns to the eye following direct contact.  |
| Chronic      | Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. |

|                           |  |               |
|---------------------------|--|---------------|
| Carboguard 510SG Part C/D | TOXICITY   | IRRITATION    |
|                           | Not Available  | Not Available |
| graded sand               | TOXICITY   | IRRITATION    |
|                           | Not Available  | Not Available |
| portland cement           | TOXICITY   | IRRITATION    |
|                           | Not Available  | Not Available |
| GRADED SAND               | No significant acute toxicological data identified in literature search. |               |

## Carboguard 510SG Part C/D

Carboguard 510SG Part C/D,  
PORTLAND CEMENT

The following information refers to contact allergens as a group and may not be specific to this product.

|  |                                       |                                 |                       |
|--|---------------------------------------|---------------------------------|-----------------------|
| <b>Acute Toxicity</b>                    | Not Applicable                        | <b>Carcinogenicity</b>          | Carcinogen Category 1 |
| <b>Skin Irritation/Corrosion</b>         | Skin Corrosion/Irritation Category 1B | <b>Reproductivity</b>           | Not Applicable        |
| <b>Serious Eye Damage/Irritation</b>     | Serious Eye Damage Category 1         | <b>STOT - Single Exposure</b>   | Not Applicable        |
| <b>Respiratory or Skin sensitisation</b> | Skin Sensitizer Category 1            | <b>STOT - Repeated Exposure</b> | STOT - RE Category 2  |
| <b>Mutagenicity</b>                      | Not Applicable                        | <b>Aspiration Hazard</b>        | Not Applicable        |

## CMR STATUS

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

Chromium in the oxidation state +3 (the trivalent form) is poorly absorbed by cells found in microorganisms, plants and animals.

## 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: NO</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   |
|------------|--|
| HSR002660  | Surface Coatings and Colourants (Corrosive, Toxic [6.7]) Group Standard 2006 |

graded sand(14808-60-7.) is found on the following regulatory lists

"International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs","New Zealand Inventory of Chemicals (NZIoC)","United Nations Consolidated List of Products Whose Consumption and/or Sale Have Been Banned, Withdrawn, Severely Restricted or Not Approved by Governments","OECD List of High Production Volume (HPV) Chemicals","FisherTransport Information","Sigma-AldrichTransport Information","New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)","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","New Zealand Workplace Exposure Standards (WES)"

portland cement(65997-15-1) is found on the following regulatory lists

"New Zealand Inventory of Chemicals (NZIoC)","OECD List of High Production Volume (HPV) Chemicals","New Zealand Workplace Exposure Standards (WES)","International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs"

## SECTION 16 OTHER INFORMATION

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**Carboguard 510SG Part C/D**

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**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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