## Tru Level Tuff Top

RLA Polymers Pty Ltd
Chemwatch: 5268-88
Version No: 2.1.1.1

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

## Product Identifier

| Product name | Tru Level Tuff Top |
| ---: | :--- |
| Synonyms | Not Available |
| Other means of identification | Not Available |

Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses Self smoothing, cementitious underlayment for vinyl floors.

| Details of the supplier of the safety data sheet |  |
| ---: | :--- |
| Registered company name | RLA Polymers Pty Ltd |
| Address | 215 Colchester Road Kilsyth VIC 3137 Australia |
| Telephone | +61397281644 |
| Fax | +61397286009 |
| Website | www.rlagroup.com.au |
| Email | sales@rlagroup.com.au |

Emergency telephone number

| Association / Organisation |
| ---: |
| Emergency telephone numbers |
| Other emergency telephone |
| numbers |

Not Available
+61 397281644 (RLA Group Technical Manager) business hours
132766 (Security Monitoring Service)

## SECTION 2 HAZARDS IDENTIFICATION

## Classification of the substance or mixture

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

| Poisons Schedule | Not Applicable |
| :---: | :---: |
| Classification ${ }^{[1]}$ | Skin Corrosion/lrritation Category 2, Serious Eye Damage Category 1, Skin Sensitizer Category 1, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Specific target organ toxicity - repeated exposure Category 2 |
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008-Annex VI |
| Label elements |  |
| Hazard pictogram(s) |  |
| SIGNAL WORD | DANGER |
| Hazard statement(s) |  |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

## Precautionary statement(s) Prevention

|  | P271 | Use only outdoors or in a well-ventilated area. |
| :--- | :--- | :--- |
|  | P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| $\mathbf{P 2 7 2}$ | Contaminated work clothing should not be allowed out of the workplace. |  |

## Precautionary statement(s) Response

| $\mathbf{P 3 0 5 + P 3 5 1 + P 3 3 8}$ | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| ---: | :--- |
| $\mathbf{P 3 1 0}$ | Immediately call a POISON CENTER or doctor/physician. |
| $\mathbf{P 3 6 2}$ | Take off contaminated clothing and wash before reuse. |
| $\mathbf{P 3 0 2 + P 3 5 2}$ | IF ON SKIN: Wash with plenty of soap and water. |

## Precautionary statement(s) Storage

| P405 | Store locked up. |
| ---: | :--- |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

## Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

## Substances

See section below for composition of Mixtures

| Mixtures |  |  |
| :--- | :--- | :--- |
| CAS No | \%[weight] | Name |
| $14808-60-7$ | $30-60$ | silica crystalline - quartz |
| $1317-65-3$ | $10-30$ | calcium carbonate |
| $65997-15-1$ | $2-10$ | portland cement |

## SECTION 4 FIRST AID MEASURES

Description of first aid measures

| Eye Contact | If this product comes in contact with the eyes: <br> - Immediately hold eyelids apart and flush the eye continuously with running water. <br> - 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. <br> - Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. <br> - Transport to hospital or doctor without delay. <br> - Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
| :---: | :---: |
| Skin Contact | If skin contact occurs: <br> - Immediately remove all contaminated clothing, including footwear. <br> - Flush skin and hair with running water (and soap if available). <br> - Seek medical attention in event of irritation. |
| Inhalation | - If fumes or combustion products are inhaled remove from contaminated area. <br> - Lay patient down. Keep warm and rested. <br> - Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. <br> - 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. <br> - Transport to hospital, or doctor, without delay. |
| Ingestion | - If swallowed do NOT induce vomiting. <br> - If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. <br> - Observe the patient carefully. <br> - Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. <br> - Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. <br> - Seek medical advice. |

Indication of any immediate medical attention and special treatment needed
Treat symptomatically.
For acute or short term repeated exposures to iron and its derivatives:

- Always treat symptoms rather than history.
- In general, however, toxic doses exceed $20 \mathrm{mg} / \mathrm{kg}$ of ingested material (as elemental iron) with lethal doses exceeding $180 \mathrm{mg} / \mathrm{kg}$.
- Control of iron stores depend on variation in absorption rather than excretion. Absorption occurs through aspiration, ingestion and burned skin.
- Hepatic damage may progress to failure with hypoprothrombinaemia and hypoglycaemia. Hepatorenal syndrome may occur.
- Iron intoxication may also result in decreased cardiac output and increased cardiac pooling which subsequently produces hypotension.
- Serum iron should be analysed in symptomatic patients. Serum iron levels ( $2-4$ hrs post-ingestion) greater that $100 \mathrm{ug} / \mathrm{dL}$ indicate poisoning with levels, in excess of $350 \mathrm{ug} / \mathrm{dL}$, being potentially serious. Emesis or lavage (for obtunded patients with no gag reflex) are the usual means of decontamination.
Activated charcoal does not effectively bind iron.
- Catharsis (using sodium sulfate or magnesium sulfate) may only be used if the patient already has diarrhoea.
- Deferoxamine is a specific chelator of ferric (3+) iron and is currently the antidote of choice. It should be administered parenterally. [Ellenhorn and Barceloux: Medical Toxicology]


## Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

| Fire Incompatibility | None known. |
| :--- | :--- | :--- |

Advice for firefighters

| Fire Fighting | - When silica dust is dispersed in air, firefighters should wear inhalation protection as hazardous substances from the fire may be adsorbed on the silica particles. <br> - When heated to extreme temperatures, (>1700 deg.C) amorphous silica can fuse. <br> - Alert Fire Brigade and tell them location and nature of hazard. <br> - Wear breathing apparatus plus protective gloves in the event of a fire. <br> - Prevent, by any means available, spillage from entering drains or water courses. <br> - Use fire fighting procedures suitable for surrounding area. |
| :---: | :---: |
| Fire/Explosion Hazard | - Non combustible. <br> - Not considered a significant fire risk, however containers may burn. <br> Decomposition may produce toxic fumes of: <br> silicon dioxide (SiO2) <br> When aluminium oxide dust is dispersed in air, firefighters should wear protection against inhalation of dust particles, which can also contain hazardous substances from the fire absorbed on the alumina particles. <br> May emit poisonous fumes. <br> May emit corrosive fumes. |
| HAZCHEM | Not Applicable |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
See section 8
Environmental precautions
See section 12
Methods and material for containment and cleaning up

| Minor Spills | - Remove all ignition sources. <br> - Clean up all spills immediately. <br> - Avoid contact with skin and eyes. <br> - Control personal contact with the substance, by using protective equipment. |
| :---: | :---: |
| Major Spills | Moderate hazard. <br> - CAUTION: Advise personnel in area. <br> - Alert Emergency Services and tell them location and nature of hazard. <br> - Control personal contact by wearing protective clothing. |

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

## SECTION 7 HANDLING AND STORAGE

| Precautions for safe handling |  |
| :---: | :---: |
| Safe handling | - Avoid all personal contact, including inhalation. <br> - Wear protective clothing when risk of exposure occurs. <br> - Use in a well-ventilated area. <br> - Prevent concentration in hollows and sumps. |
| Other information | - Store in original containers. <br> - Keep containers securely sealed. <br> - Store in a cool, dry area protected from environmental extremes. <br> - Store away from incompatible materials and foodstuff containers. |
| Conditions for safe storage, including any incompatibilities |  |
| Suitable container | - Polyethylene or polypropylene container. <br> - Check all containers are clearly labelled and free from leaks. |
| Storage incompatibility | - WARNING: Avoid or control reaction with peroxides. All transition metal peroxides should be considered as potentially explosive. For example transition metal complexes of alkyl hydroperoxides may decompose explosively. <br> The pi-complexes formed between chromium(0), vanadium(0) and other transition metals (haloarene-metal complexes) and mono-or poly-fluorobenzene show extreme sensitivity to heat and are explosive. <br> - Avoid strong acids, acid chlorides, acid anhydrides and chloroformates. |

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## Control parameters

| OCCUPATIONAL EXPOSURE LIMITS (OEL)
|| INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |


| Australia Exposure Standards | silica crystalline - quartz | Quartz (respirable dust) | 0.1 mg/m3 | Not Available | Not Available | Not Available |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Australia Exposure Standards | silica crystalline - quartz | Quartz (respirable dust) | 0.1 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | silica crystalline - quartz | Silica - Crystalline | Not Available | Not Available | Not Available | Not Available |
| Australia Exposure Standards | calcium carbonate | Calcium carbonate | $10 \mathrm{mg} / \mathrm{m} 3$ | Not Available | Not Available | Not Available |
| Australia Exposure Standards | portland cement | Portland cement | $10 \mathrm{mg} / \mathrm{m} 3$ | Not Available | Not Available | Not Available |
| EMERGENCY LIMITS |  |  |  |  |  |  |
| Ingredient | Material name |  | TEEL-1 |  | TEEL-2 | TEEL-3 |
| silica crystalline - quartz | Silica, crystalline-quartz; (Silicon dioxide) |  | $0.075 \mathrm{mg} / \mathrm{m} 3{ }^{\text {a }}$ |  | $33 \mathrm{mg} / \mathrm{m} 3$ | $200 \mathrm{mg} / \mathrm{m} 3$ |
| calcium carbonate | Limestone; (Calcium carbonate; Dolomite) |  | $45 \mathrm{mg} / \mathrm{m} 3$ |  | $500 \mathrm{mg} / \mathrm{m} 3$ | $3,000 \mathrm{mg} / \mathrm{m} 3$ |
| calcium carbonate | Carbonic acid, calcium salt |  | $45 \mathrm{mg} / \mathrm{m} 3$ |  | $210 \mathrm{mg} / \mathrm{m} 3$ | 1,300 mg/m3 |
| Ingredient | Original IDLH |  | Revised IDLH |  |  |  |
| silica crystalline - quartz | Not Available |  | Not Available |  |  |  |
| calcium carbonate | Not Available |  | Not Available |  |  |  |
| portland cement | $5,000 \mathrm{mg} / \mathrm{m} 3$ |  | 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. Well-designed engineering controls can be |
| :--- |
| highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. |
| The basic types of engineering controls are: |
| Process controls which involve changing the way a job activity or process is done to reduce the risk. |
| Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and |
| "removes" air in the work environment. |

## Respiratory protection

Type AX-P Filter of sufficient capacity. (AS/NZS 1716 \& 1715, EN 143:2000 \& 149:2001, ANSI Z88 or national equivalent)

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
| :---: | :---: | :---: | :---: |
| up to $10 \times$ ES | AXP1 <br> Air-line* | - | AX PAPR-P1 |
| up to $50 \times \mathrm{ES}$ | Air-line** | AX P2 | AX PAPR-P2 |
| up to $100 \times$ ES | - | AX P3 | - |
|  |  | Air-line* | - |
| $100+x$ ES | - | Air-line** | AX PAPR-P3 |

*     - Negative pressure demand ${ }^{* *}$ - Continuous flow

A (All classes) = Organic vapours, B AUS or $\mathrm{B} 1=$ Acid gasses, $\mathrm{B} 2=$ Acid gas or hydrogen cyanide $(\mathrm{HCN}), \mathrm{B} 3=$ Acid gas or hydrogen cyanide( HCN ), $\mathrm{E}=\mathrm{Sulfur}$ dioxide(SO2), $\mathrm{G}=\mathrm{Agricultural}$ chemicals, $\mathrm{K}=\mathrm{Ammonia}(\mathrm{NH} 3), \mathrm{Hg}=$ Mercury, $\mathrm{NO}=$ Oxides of nitrogen, $\mathrm{MB}=$ Methyl bromide, $\mathrm{AX}=\mathrm{Low}$ boiling point organic compounds(below 65 degC)

## Information on basic physical and chemical properties

| Appearance | Fine grey powder; partly soluble in water. |  |  |
| :---: | :---: | :---: | :---: |
| Physical state | Divided Solid | Relative density (Water = 1) | >1.5 |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature ( ${ }^{\circ} \mathrm{C}$ ) | Not Applicable |
| pH (as supplied) | Not Applicable | Decomposition temperature | Not Available |
| Melting point / freezing point $\left({ }^{\circ} \mathrm{C}\right)$ | Not Available | Viscosity (cSt) | Not Applicable |
| Initial boiling point and boiling range ( ${ }^{\circ} \mathrm{C}$ ) | Not Applicable | Molecular weight ( $\mathrm{g} / \mathrm{mol}$ ) | Not Applicable |
| Flash point ( ${ }^{( } \mathrm{C}$ ) | Not Applicable | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Applicable | Oxidising properties | Not Available |
| Upper Explosive Limit (\%) | Not Applicable | Surface Tension (dyn/cm or $\mathrm{mN} / \mathrm{m}$ ) | Not Applicable |
| Lower Explosive Limit (\%) | Not Available | Volatile Component (\%vol) | Not Available |
| Vapour pressure (kPa) | Negligible | Gas group | Not Available |
| Solubility in water (g/L) | Partly miscible | pH as a solution (1\%) | Not Applicable |
| Vapour density ( $\mathbf{A i r}=1$ ) | Not Available | voc g/L | Not Available |

## SECTION 10 STABILITY AND REACTIVITY

| Reactivity | See section 7 |
| ---: | :--- |
| Chemical stability | , Unstable in the presence of incompatible materials. <br> , Product is considered stable. <br> r Hazardous polymerisation will not occur. |
| Possibility of hazardous | See section 7 |
| reactions | Conditions to avoid |
| Incompatible materials | See section 7 |
| Hazardous decomposition 7 |  |
| products | See section 5 |

## SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

| Inhaled | The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual. Inhalation may result in ulcers or sores of the lining of the nose (nasal mucosa), and lung damage. <br> Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. <br> If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures. <br> Effects on lungs are significantly enhanced in the presence of respirable particles. <br> Acute silicosis occurs under conditions of extremely high silica dust exposure particularly when the particle size of the dust is small. The disease is rapidly progressive and spreads widely through the lungs within months of the initial exposure and causing death within 1 to 2 years. |
| :---: | :---: |
| Ingestion | Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastro-intestinal tract Ingestion may result in nausea, abdominal irritation, pain and vomiting |
| Skin Contact | The material may accentuate any pre-existing dermatitis condition <br> Skin contact may result in severe irritation particularly to broken skin. Ulceration known as "chrome ulcers" may develop. Chrome ulcers and skin cancer are significantly related. <br> Open cuts, abraded or irritated skin should not be exposed to this material <br> Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. <br> The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. |
| Eye | If applied to the eyes, this material causes severe eye damage. |
| Chronic | Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. <br> Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. <br> Harmful: danger of serious damage to health by prolonged exposure through inhalation. <br> This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. <br> Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. <br> Animal testing shows long term exposure to aluminium oxides may cause lung disease and cancer, depending on the size of the particle. The smaller the size, the greater the tendencies of causing harm. <br> Red blood cells and rabbit alveolar macrophages exposed to calcium silicate insulation materials in vitro showed haemolysis in one study but not in another. Both studies showed the substance to be more cytotoxic than titanium dioxide but less toxic than asbestos. <br> In a small cohort mortality study of workers in a wollastonite quarry, the observed number of deaths from all cancers combined and lung cancer were lower than expected. Wollastonite is a calcium inosilicate mineral (CaSiO3). |



| SILICA CRYSTALLINE QUARTZ |
| :---: |
| CALCIUM CARBONATE |
| PORTLAND CEMENT |
| Acute Toxicity |
| Skin Irritation/Corrosion |
| Serious Eye Damage/Irritation |
| Respiratory or Skin sensitisation |
| Mutagenicity |

## WARNING: For inhalation exposure ONLY: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS

The International Agency for Research on Cancer (IARC) has classified occupational exposures to respirable (<5 um) crystalline silica as being carcinogenic to humans. This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause silicosis, a non-cancerous lung disease. Intermittent exposure produces; focal fibrosis, (pneumoconiosis), cough, dyspnoea, liver tumours.
The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.
Eye (rabbit) $0.75: \mathrm{mg} / 24 \mathrm{~h}$ - No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects
The following information refers to contact allergens as a group and may not be specific to this product.
Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated mmune reactions.
Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.
No significant acute toxicological data identified in literature search.
Carcinogenicity

## SECTION 12 ECOLOGICAL INFORMATION

| Toxicity |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Tru Level Tuff Top | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
|  | Not Available | Not Available | Not Available | Not Available | Not Available |
| silica crystalline - quartz | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
|  | Not Available | Not Available | Not Available | Not Available | Not <br> Available |


| calcium carbonate | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | LC50 | 96 | Fish | >56000mg/L | 4 |
|  | EC50 | 72 | Algae or other aquatic plants | >14mg/L | 2 |
|  | NOEC | 72 | Algae or other aquatic plants | 14mg/L | 2 |
| portland cement | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
|  | Not <br> Available | Not Available | Not Available | Not <br> Available | Not <br> Available |
| Legend: | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data |  |  |  |  |
| DO NOT discharge into sewer or waterways. |  |  |  |  |  |
| Persistence and degradability |  |  |  |  |  |
| Ingredient | Persistence: Water/Soil |  | Persistence: Air |  |  |
|  | No Data available for all ingredients |  | No Data available for all ingredients |  |  |
| Bioaccumulative potential |  |  |  |  |  |
| Ingredient | Bioaccumulation |  |  |  |  |
|  | No Data available for all ingredients |  |  |  |  |
| Mobility in soil |  |  |  |  |  |
| Ingredient | Mobility |  |  |  |  |
|  | No Data available for all ingredients |  |  |  |  |

## SECTION 13 DISPOSAL CONSIDERATIONS

## Waste treatment methods

| Product / Packaging disposal | - Containers may still present a chemical hazard/ danger when empty. <br> - Return to supplier for reuse/ recycling if possible. |
| :---: | :---: |
|  | Otherwise: |
|  | - If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. |
|  | - Where possible retain label warnings and SDS and observe all notices pertaining to the product. |
|  | - DO NOT allow wash water from cleaning or process equipment to enter drains. |
|  | - It may be necessary to collect all wash water for treatment before disposal. |
|  | - In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. |
|  | - Where in doubt contact the responsible authority. |
|  | - Recycle wherever possible or consult manufacturer for recycling options. |
|  | - Consult State Land Waste Management Authority for disposal. |
|  | - Bury residue in an authorised landfill. |
|  | - Recycle containers if possible, or dispose of in an authorised landfill. |

SECTION 14 TRANSPORT INFORMATION

Labels Required

| Marine Pollutant | NO |
| ---: | :--- |
| HAZCHEM | Not Applicable |

Land transport (ADG): 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
Transport in bulk according to Annex II of MARPOL and the IBC code
Not Applicable

## SECTION 15 REGULATORY INFORMATION

## Safety, health and environmental regulations / legislation specific for the substance or mixture

SILICA CRYSTALLINE - QUARTZ(14808-60-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

| Australia Exposure Standards | Australia Inventory of Chemical Substances (AICS) |
| :--- | :--- |
| Australia Hazardous Substances Information System - Consolidated Lists | International Agency for Research on Cancer (IARC) - Agents Classified by the IARC |
|  | Monographs |

CALCIUM CARBONATE(1317-65-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

| Australia Exposure Standards |  | Australia Inventory of Chemical Substances (AICS) |
| :---: | :---: | :---: |
| PORTLAND CEMENT(65997-15-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS |  |  |
| Australia Exposure Standards |  | Australia Inventory of Chemical Substances (AICS) |
| National Inventory | Status |  |
| Australia - AICS | Y |  |
| Canada - DSL | Y |  |
| Canada - NDSL | N (portland cement; silica crystalline - quartz) |  |
| China - IECSC | Y |  |
| Europe - EINEC / ELINCS / NLP | Y |  |
| Japan - ENCS | N (portland cement) |  |
| Korea - KECI | Y |  |
| New Zealand - NZloC | Y |  |
| Philippines - PICCS | N (portland cement) |  |
| USA - TSCA | Y |  |
| Legend: | $Y=$ All ingredients are on the inventory <br> $N=$ Not determined or one or more ingredients are not on the | e inventory and are not exempt from listing(see specific ingredients in brackets) |

## SECTION 16 OTHER INFORMATION

## Other information

Ingredients with multiple cas numbers

| Name | CAS No |
| :--- | :--- |
| silica crystalline - quartz | $14808-60-7,122304-48-7,122304-49-8,12425-26-2,1317-79-9,70594-95-5,87347-84-0,308075-07-2$ |

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 SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

## Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average
PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer
ACGIH: American Conference of Governmental Industrial Hygienists
STEL: Short Term Exposure Limit
TEEL: Temporary Emergency Exposure Limit。
IDLH: Immediately Dangerous to Life or Health Concentrations
OSF: Odour Safety Factor
NOAEL :No Observed Adverse Effect Level
LOAEL: Lowest Observed Adverse Effect Level
TLV: Threshold Limit Value
LOD: Limit Of Detection
OTV: Odour Threshold Value
BCF: BioConcentration Factors
BEI: Biological Exposure Index
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