River Sands

Chemwatch: 40-4472 Version No: 5.1.1.1 Safety Data Sheet according to WHS and ADG requirements

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

Product Identifier

| Product name | RSA Masonry Render - MR60,MR75,MR120,MR180, AAC Supa Flex |
|-------------------------------------------------------------------------------|--------------------------------------------------------------|
| Synonyms | RSA Masonry Render (MR60, MR75, MR120, MR180, AAC Superflex) |
| Other means of identification | Not Available |
| Relevant identified uses of the substance or mixture and uses advised against | |
| Relevant identified uses | Cement based render for brick, block, concrete and AAC. |

Details of the supplier of the safety data sheet

| Registered company name | River Sands |
|-------------------------|------------------------------------------------------------|
| Address | 683 Beenleigh-Redland Bay Road Carbrook QLD 4130 Australia |
| Telephone | +61 7 3412 8111 |
| Fax | +61 7 3287 6445 |
| Website | www.riversands.com.au |
| Email | info@riversands.com.au |

Emergency telephone number

| Association / Organisation | River Sands |
|-----------------------------------|---------------|
| Emergency telephone numbers | 13 11 26 |
| Other emergency telephone numbers | Not Available |

SECTION 2 HAZARDS IDENTIFICATION

| Poisons Schedule | Not Applicable | |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Classification ^[1] | Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1, Skin Sensitizer Category 1, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation) | |
| Legend: | 1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI | |
| abel elements | | |
| Hazard pictogram(s) | | |
| SIGNAL WORD | DANGER | |
| lazard statement(s) | | |
| H315 | Causes skin irritation. | |
| H318 | Causes serious eye damage. | |
| H317 | May cause an allergic skin reaction. | |
| H335 | May cause respiratory irritation. | |
| Precautionary statement(s) Pre | evention | |
| P271 | Use only outdoors or in a well-ventilated area. | |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. | |
| P261 | Avoid breathing dust/fumes. | |
| P272 | Contaminated work clothing should not be allowed out of the workplace. | |

Precautionary statement(s) Response

| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|--|
| P310 | Immediately call a POISON CENTER or doctor/physician. | |

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Chemwatch Hazard Alert Code: 3

| P321 | Specific treatment (see advice on this label). |
|-----------|--------------------------------------------------------------------------------------------------|
| P362 | Take off contaminated clothing and wash before reuse. |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| | |

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 to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|-------------|-----------|-----------------------------|
| 14808-60-7. | 70-80 | graded sand |
| 65997-15-1 | 20-30 | portland cement |
| 471-34-1 | 0-20 | calcium carbonate |
| 9004-34-6 | 0-5 | cellulose |
| 14808-60-7 | NotSpec | silica crystalline - quartz |

SECTION 4 FIRST AID MEASURES

Description of first aid measures

| Eye Contact | If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. 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. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin Contact | If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. |
| Inhalation | If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. 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. Transport to hospital, or doctor, without delay. |
| Ingestion | Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. |

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 mg/kg of ingested material (as elemental iron) with lethal doses exceeding 180 mg/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.
- F 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 ug/dL indicate poisoning with levels, in excess of 350 ug/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] 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.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

| Fire Incompatibility | None known. | |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| dvice for firefighters | | |
| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. | |
| Fire/Explosion Hazard | Non combustible. Not considered a significant fire risk, however containers may burn. Decomposes on heating and produces toxic fumes of: silicon dioxide (SiO2) 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. May emit poisonous fumes. 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. Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Use dry clean up procedures and avoid generating dust. Place in a suitable, labelled container for waste disposal. Moderate hazard. |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Major Spills | CAUTION: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact by wearing protective clothing. Prevent, by any means available, spillage from entering drains or water courses. Recover product wherever possible. IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal. ALWAYS: Wash area down with large amounts of water and prevent runoff into drains. If contamination of drains or waterways occurs, advise Emergency Services. |

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. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. |

| | Avoid contact with incompatible materials. |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | When handling, DO NOT eat, drink or smoke. |
| | Keep containers securely sealed when not in use. |
| | Avoid physical damage to containers. |
| | Always wash hands with soap and water after handling. |
| | Work clothes should be laundered separately. Launder contaminated clothing before re-use. |
| | Use good occupational work practice. |
| | Observe manufacturer's storage and handling recommendations contained within this SDS. |
| | Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. |
| | Store in original containers. Keep containers securely sealed. |
| | Store in a cool, dry area protected from environmental extremes. |
| | Store away from incompatible materials and foodstuff containers. |
| | Protect containers against physical damage and check regularly for leaks. Observe answer for thread attended and the difference and the difference attended within this CDC. |
| Other information | Observe manufacturer's storage and handling recommendations contained within this SDS. For major guantities: |
| | Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams). |
| | Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities. |
| Conditions for safe storage, in | cluding any incompatibilities |

| Suitable container | Multi-ply paper bag with sealed plastic liner or heavy gauge plastic bag. | | |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| | NOTE: Bags should be stacked, blocked, interlocked, and limited in height so that they are stable and secure against sliding or collapse. Check that all containers are clearly labelled and free from leaks. Packing as recommended by manufacturer. | | |
| Storage incompatibility | WARNING: Avoid or control reaction with peroxides. All <i>transition metal</i> peroxides should be considered as potentially explosive. For example transition metal complexes of alkyl hydroperoxides may decompose explosively. 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. Avoid reaction with borohydrides or cyanoborohydrides Avoid strong acids, acid chlorides, acid anhydrides and chloroformates. Avoid contact with copper, aluminium and their alloys. | | |

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 | graded sand | Quartz (respirable dust) | 0.1 mg/m3 | Not Available | Not Available | See Silica -Crystalline |
| Australia Exposure Standards | graded sand | Silica - Crystalline: Quartz (respirable dust) | 0.1 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | portland cement | Portland cement | 10 mg/m3 | Not Available | Not Available | (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. |
| Australia Exposure Standards | calcium carbonate | Calcium carbonate | 10 mg/m3 | Not Available | Not Available | (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. |
| Australia Exposure Standards | cellulose | Cellulose (paper fibre) | 10 mg/m3 | Not Available | Not Available | (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. |
| Australia Exposure Standards | silica crystalline - quartz | Quartz (respirable dust) | 0.1 mg/m3 | Not Available | Not Available | See Silica -Crystalline |
| Australia Exposure Standards | silica crystalline - quartz | Silica - Crystalline: Quartz (respirable dust) | 0.1 mg/m3 | Not Available | Not Available | Not Available |

EMERGENCY LIMITS

| Ingredient | Material name TEEL-1 | | TEEL-2 | TEEL-3 | |
|-----------------------------|-----------------------------------------------------------|---------------|---------------|---------------|--|
| graded sand | Silica, crystalline-quartz; (Silicon dioxide) 0.075 mg/m3 | | 33 mg/m3 | 200 mg/m3 | |
| calcium carbonate | Limestone; (Calcium carbonate; Dolomite) | 45 mg/m3 | 500 mg/m3 | 3,000 mg/m3 | |
| calcium carbonate | Carbonic acid, calcium salt | 45 mg/m3 | 210 mg/m3 | 1,300 mg/m3 | |
| silica crystalline - quartz | Silica, crystalline-quartz; (Silicon dioxide) | 0.075 mg/m3 | 33 mg/m3 | 200 mg/m3 | |
| Ingredient | Original IDLH | | Revised IDLH | | |
| graded sand | 25 mg/m3 / 50 mg/m3 | | Not Available | Not Available | |
| portland cement | 5,000 mg/m3 | | Not Available | | |
| calcium carbonate | Not Available | Not Available | | | |
| cellulose | Not Available | Not Available | | | |
| silica crystalline - quartz | 25 mg/m3 / 50 mg/m3 | | 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.

| | | a selected hazard "physically" away from the worker and ven on can remove or dilute an air contaminant if designed prope | | |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|
| | Employers may need to use multiple types of controls to pre- | | | |
| | protection. Supplied-air type respirator may be required in s An approved self contained breathing apparatus (SCBA) ma Provide adequate ventilation in warehouse or closed storage | osure exists, wear approved respirator. Correct fit is essentia pecial circumstances. Correct fit is essential to ensure adequa by be required in some situations. a area. Air contaminants generated in the workplace possess f fresh circulating air required to effectively remove the conta | ate protection. s varying "escape" | |
| | Type of Contaminant: | | Air Speed: | |
| | solvent, vapours, degreasing etc., evaporating from tank (| in still air). | 0.25-0.5 m/s (50-100 f/min.) | |
| | aerosols, fumes from pouring operations, intermittent cond drift, plating acid fumes, pickling (released at low velocity | | 0.5-1 m/s (100-200 f/min.) | |
| | direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion) | conveyer loading, crusher dusts, gas discharge (active | 1-2.5 m/s (200-500 f/min.) | |
| | grinding, abrasive blasting, tumbling, high speed wheel ge very high rapid air motion). | enerated dusts (released at high initial velocity into zone of | 2.5-10 m/s (500-2000 f/min.) | |
| | Within each range the appropriate value depends on: | | | |
| | Lower end of the range | Upper end of the range | | |
| | 1: Room air currents minimal or favourable to capture | 1: Disturbing room air currents | | |
| | 2: Contaminants of low toxicity or of nuisance value only. | 2: Contaminants of high toxicity | | |
| | 3: Intermittent, low production. | 3: High production, heavy use | | |
| | 4: Large hood or large air mass in motion | 4: Small hood-local control only | | |
| | accordingly, after reference to distance from the contaminat 1-2 m/s (200-400 f/min) for extraction of solvents generated | ble cases). Therefore the air speed at the extraction point sho ng source. The air velocity at the extraction fan, for example in a tank 2 meters distant from the extraction point. Other m us, make it essential that theoretical air velocities are multipl | , should be a minimum o echanical considerations | |
| Personal protection | | | | |
| Eye and face protection | the wearing of lenses or restrictions on use, should be or and adsorption for the class of chemicals in use and an their removal and suitable equipment should be readily remove contact lens as soon as practicable. Lens shoul | lenses may absorb and concentrate irritants. A written policy reated for each workplace or task. This should include a rev account of injury experience. Medical and first-aid personne available. In the event of chemical exposure, begin eye irrige d be removed at the first signs of eye redness or irritation - le ands thoroughly. [CDC NIOSH Current Intelligence Bulletin 55 | iew of lens absorption I should be trained in ation immediately and ens should be removed in | |
| Skin protection | See Hand protection below | | | |
| | NOTE: | | | |
| Hands/feet protection | equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and v The selection of suitable gloves does not only depend on th manufacturer. Where the chemical is a preparation of sever and has therefore to be checked prior to the application. The exact break through time for substances has to be obta making a final choice. Personal hygiene is a key element of effective hand care. G washed and dried thoroughly. Application of a non-perfumect Suitability and durability of glove type is dependent on usag frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN When prolonged or frequently repeated cor greater than 240 minutes according to EN 374, AS When only brief contact is expected, a glov according to EN 374, AS/NZS 2161.10.1 or natior | e material, but also on further marks of quality which vary fro al substances, the resistance of the glove material can not be ined from the manufacturer of the protective gloves and has loves must only be worn on clean hands. After using gloves, d moisturiser is recommended. e. Important factors in the selection of gloves include: 374, US F739, AS/NZS 2161.1 or national equivalent). ttact may occur, a glove with a protection class of 5 or higher S/NZS 2161.10.1 or national equivalent) is recommended. e with a protection class of 3 or higher (breakthrough time gr hal equivalent) is recommended. d by movement and this should be taken into account when o e rated as: | m manufacturer to e calculated in advance to be observed when hands should be | |
| | Good when breakthrough time > 20 min Fair when breakthrough time < 20 min Poor when glove material degrades For general applications, gloves with a thickness typically gr | | | |

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation

Continued...

| | efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present. polychloroprene. hitrile rubber. butyl rubber. butyl rubber. polyvinyl chloride. Gloves should be examined for wear and/ or degradation constantly. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Body protection | See Other protection below |
| Other protection | Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit. |

Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

| 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(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)

Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

• Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.

Use approved positive flow mask if significant quantities of dust becomes airborne.

Try to avoid creating dust conditions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| Appearance | Grey to off-white powder; insoluble in water. | | |
|-------------------------------------------------|-----------------------------------------------|-----------------------------------------|----------------|
| Physical state | Divided Solid | Relative density (Water = 1) | 1.3 (bulk) |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Applicable |
| pH (as supplied) | Not Applicable | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Applicable |
| Initial boiling point and boiling range (°C) | Not Applicable | Molecular weight (g/mol) | Not Applicable |
| Flash point (°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 mN/m) | Not Applicable |
| Lower Explosive Limit (%) | Not Applicable | Volatile Component (%vol) | Not Applicable |
| Vapour pressure (kPa) | Not Applicable | Gas group | Not Available |
| Solubility in water | Immiscible | pH as a solution (1%) | >11.5 (slurry) |

Vapour density (Air = 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. Product is considered stable. Hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7 |
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

| Inhaled | The material 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. 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. 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. Effects on lungs are significantly enhanced in the presence of respirable particles. | | | | |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--|--|--|
| Ingestion | The material has NOT been classified by EC Directives or other classific corroborating animal or human evidence. | ation systems as "harmful by ingestion". This is because of the lack of | | | |
| Skin Contact | This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition 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. Open cuts, abraded or irritated skin should not be exposed to this material 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. | | | | |
| Eye | If applied to the eyes, this material causes severe eye damage. | | | | |
| Chronic | prior to the use of the material and ensure that any external damage is suitably protected. If applied to the eyes, this material causes severe eye damage. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Cement contact dermatitis (CCD) may occur when contact shows an allergic response, which may progress to sensitisation. Sensitisation is du to soluble chromates (chromate compounds) present in trace amounts in some cements and cement products. Soluble chromates readily penetrate intact skin. Cement dermatitis can be characterised by fissures, eczematous rash, dystrophic nails, and dry skin; acute contact with highly alkaline mixtures may cause localised necrosis. Cement eczema may be due to chromium in feed stocks or contamination from materials of construction used in processing the cement. Sensitisation to chromium may be the leading cause of nickel and cobalt sensitivity and the high alkalinity of cement is an important factor in cement dermatoses [ILO]. Repeated, prolonged severe inhalation exposure may cause pulmonary oedema and rarely, pulmonary fibrosis. Workers may also suffer from dust-induced bronchitis with chronic bronchitis reported in 17% of a group occupationally exposed to high dust levels. Respiratory symptoms and ventilatory function were studied in a group of 591 male Portland cement workers employed in four Taiwanese ceme plants, with at least 5 years of exposure (1). This group had a significantly lowered mean forced vital capacity (FCV), forced expiratory lows after exhaliation occupational exposure to Portland cement dust may lead to a higher incidence of chronic respiratory symptoms and a reduction of ventilatory capacity. Chun-Yuh et al; Journal of Toxicology and Environmental Health 49: 581-588, 1996 Overexposure to the breathable dust may cause coughin | | | | |
| RSA Masonry Render - | TOXICITY | IRRITATION | | | |
| MR60,MR75,MR120,MR180, AAC Supa Flex | Not Available | Not Available | | | |
| | τοχιςιτγ | IRRITATION | | | |
| graded sand | Oral (rat) LD50: =500 mg/kg ^[2] | Not Available | | | |
| | ΤΟΧΙΟΙΤΥ | IRRITATION | | | |
| portland cement | Not Available | Not Available | | | |
| | | | | | |

| | ΤΟΧΙΟΙΤΥ | IRRITATION | |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | dermal (rat) LD50: >2000 mg/kg ^[1] | Eye (rabbit): 0.7 | '5 mg/24h - SEVERE |
| calcium carbonate | Oral (rat) LD50: >2000 mg/kg ^[1] | Eye: no adverse | e effect observed (not irritating) ^[1] |
| | | Skin (rabbit): 50 | 0 mg/24h-moderate |
| | | Skin: no adverse | e effect observed (not irritating) ^[1] |
| | тохісіту | IRRITATION | |
| | Dermal (rabbit) LD50: >2000 mg/kg ^[2] | Not Available | |
| cellulose | Inhalation (rat) LC50: >5.8 mg/l/4H ^[2] | | |
| | Oral (rat) LD50: >5000 mg/kg ^[2] | | |
| | ΤΟΧΙΟΙΤΥ | IRRITATION | |
| silica crystalline - quartz | Oral (rat) LD50: =500 mg/kg ^[2] | Not Available | |
| Legend: | 1. Value obtained from Europe ECHA Registered Substances - A specified data extracted from RTECS - Register of Toxic Effect o | | ained from manufacturer's SDS. Unless otherwise |
| PORTLAND CEMENT | The following information refers to contact allergens as a group a Contact allergies quickly manifest themselves as contact eczema eczema involves a cell-mediated (T lymphocytes) immune reaction involve antibody-mediated immune reactions. The significance of distribution of the substance and the opportunities for contact wit distributed can be a more important allergen than one with strong clinical point of view, substances are noteworthy if they produce a | , more rarely as urticaria of on of the delayed type. Oth the contact allergen is no h it are equally important. Jer sensitising potential with | or Quincke's oedema. The pathogenesis of contact ner allergic skin reactions, e.g. contact urticaria, t simply determined by its sensitisation potential: the A weakly sensitising substance which is widely th which few individuals come into contact. From a |
| CALCIUM CARBONATE | No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects. 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. | | |
| SILICA CRYSTALLINE - QUARTZ | WARNING: For inhalation exposure <u>ONLY</u>: This substance has the International Agency for Research on Cancer (IARC) has clacarcinogenic to humans. This classification is based on what IAR the carcinogenicity of inhaled silica in the forms of quartz and crist disease. Intermittent exposure produces; focal fibrosis, (pneumoconiosis), * Millions of particles per cubic foot (based on impinger samples on NOTE: the physical nature of quartz in the product determines of the product determines on the pr | ssified occupational expose C considered sufficient ev tobalite. Crystalline silica cough, dyspnoea, liver tu | sures to respirable (<5 um) crystalline silica as bein vidence from epidemiological studies of humans for is also known to cause silicosis, a non-cancerous lu mours. |
| | material must enter the breathing zone as respirable particles. | whether it is likely to prese | . , |
| GRADED SAND & PORTLAND CEMENT | material must enter the breathing zone as respirable particles. No significant acute toxicological data identified in literature searc | | . , |
| | | ter exposure to the materi can occur after exposure t vays disease in a non-atop exposure to the irritant. Ot al hyperreactivity on meth) following an irritating inh stance. On the other hand ce (often particles) and is | al ends. This may be due to a non-allergic condition o high levels of highly irritating compound. Main pic individual, with sudden onset of persistent her criteria for diagnosis of RADS include a reversib acholine challenge testing, and the lack of minimal lalation is an infrequent disorder with rates related to I, industrial bronchitis is a disorder that occurs as a |
| CEMENT PORTLAND CEMENT & CALCIUM CARBONATE & | No significant acute toxicological data identified in literature search Asthma-like symptoms may continue for months or even years at known as reactive airways dysfunction syndrome (RADS) which criteria for diagnosing RADS include the absence of previous airva asthma-like symptoms within minutes to hours of a documented airflow pattern on lung function tests, moderate to severe bronch lymphocytic inflammation, without eosinophilia. RADS (or asthma the concentration of and duration of exposure to the irritating sub result of exposure due to high concentrations of irritating substan | ter exposure to the materi can occur after exposure t vays disease in a non-atop exposure to the irritant. Ot al hyperreactivity on meth) following an irritating inh stance. On the other hand ce (often particles) and is | al ends. This may be due to a non-allergic condition o high levels of highly irritating compound. Main pic individual, with sudden onset of persistent her criteria for diagnosis of RADS include a reversib acholine challenge testing, and the lack of minimal lalation is an infrequent disorder with rates related to I, industrial bronchitis is a disorder that occurs as a |
| CEMENT PORTLAND CEMENT & CALCIUM CARBONATE & CELLULOSE | No significant acute toxicological data identified in literature searce Asthma-like symptoms may continue for months or even years at known as reactive airways dysfunction syndrome (RADS) which criteria for diagnosing RADS include the absence of previous ain asthma-like symptoms within minutes to hours of a documented airflow pattern on lung function tests, moderate to severe bronch lymphocytic inflammation, without eosinophilia. RADS (or asthma the concentration of and duration of exposure to the irritating sub result of exposure due to high concentrations of irritating substan disorder is characterized by difficulty breathing, cough and mucu- | ter exposure to the materi can occur after exposure t vays disease in a non-atop exposure to the irritant. Ot al hyperreactivity on meth) following an irritating inh stance. On the other hand ce (often particles) and is s production. | al ends. This may be due to a non-allergic condition o high levels of highly irritating compound. Main pic individual, with sudden onset of persistent her criteria for diagnosis of RADS include a reversib acholine challenge testing, and the lack of minimal alation is an infrequent disorder with rates related to I, industrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. The |
| CEMENT PORTLAND CEMENT & CALCIUM CARBONATE & CELLULOSE Acute Toxicity Skin Irritation/Corrosion | No significant acute toxicological data identified in literature search Asthma-like symptoms may continue for months or even years at known as reactive airways dysfunction syndrome (RADS) which criteria for diagnosing RADS include the absence of previous air asthma-like symptoms within minutes to hours of a documented airflow pattern on lung function tests, moderate to severe bronch lymphocytic inflammation, without eosinophila. RADS (or asthma the concentration of and duration of exposure to the irritating sub result of exposure due to high concentrations of irritating substan disorder is characterized by difficulty breathing, cough and mucu- | th. ter exposure to the materi can occur after exposure t vays disease in a non-atop exposure to the irritant. Ot al hyperreactivity on meth hyperreactivity on meth hyperreactivity on meth hyperreactivity on meth stance. On the other hand ce (often particles) and is s production. Carcinogenicity | And a chronic health problem. To be a hazard the al ends. This may be due to a non-allergic condition o high levels of highly irritating compound. Main pic individual, with sudden onset of persistent her criteria for diagnosis of RADS include a reversib acholine challenge testing, and the lack of minimal alation is an infrequent disorder with rates related to t, industrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. The |
| CEMENT PORTLAND CEMENT & CALCIUM CARBONATE & CELLULOSE | No significant acute toxicological data identified in literature search Asthma-like symptoms may continue for months or even years at known as reactive airways dysfunction syndrome (RADS) which criteria for diagnosing RADS include the absence of previous airva asthma-like symptoms within minutes to hours of a documented of airflow pattern on lung function tests, moderate to severe bronch lymphocytic inflammation, without eosinophilia. RADS (or asthma the concentration of and duration of exposure to the irritating sub- result of exposure due to high concentrations of irritating substan- disorder is characterized by difficulty breathing, cough and mucu S | th. ter exposure to the materican occur after exposure to vays disease in a non-atop exposure to the irritant. Ot al hyperreactivity on meth) following an irritating inh stance. On the other hand ce (often particles) and is s production. Carcinogenicity Reproductivity | nt a chronic health problem. To be a hazard the al ends. This may be due to a non-allergic condition o high levels of highly irritating compound. Main pic individual, with sudden onset of persistent her criteria for diagnosis of RADS include a reversib acholine challenge testing, and the lack of minimal alation is an infrequent disorder with rates related to I, industrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. The |

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

| RSA Masonry Render - MR60,MR75,MR120,MR180, AAC Supa Flex | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
|-----------------------------------------------------------------|------------------|--------------------|---------------|------------------|------------------|
| | Not Available | Not Available | Not Available | Not Available | Not Available |
| graded sand | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
| | Not Available | Not Available | Not Available | Not Available | Not Available |

| | ENDPOINT | TEST DURATION (HR) | SPECIES | | VALUE | SOURCE |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------|-----|------------------|------------------|
| portland cement | Not Available | Not Available | Not Available | | Not Available | Not Available |
| calcium carbonate | ENDPOINT | TEST DURATION (HR) | SPECIES | | VALUE | SOURCE |
| | LC50 | 96 | Fish | 1 | >56000mg/L | 4 |
| | EC50 | 72 | Algae or other aquatic plants | | >14mg/L | 2 |
| | EC10 | 72 | Algae or other aquatic plants | 1 | >14mg/L | 2 |
| | NOEC | 72 | Algae or other aquatic plants | | 14mg/L | 2 |
| | ENDPOINT | TEST DURATION (HR) | SPECIES | VAL | .UE | SOURCE |
| cellulose | LC50 | 96 | Fish | 916 | 0000mg/L | 3 |
| | EC50 | 96 | Algae or other aquatic plants | 340 | 000000mg/L | 3 |
| | ENDPOINT | TEST DURATION (HR) | SPECIES | | VALUE | SOURCE |
| silica crystalline - quartz | Not Available | Not Available | Not Available | | Not Available | Not 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 |
|------------|-------------------------|------------------|
| cellulose | LOW | LOW |
| | | |

Bioaccumulative potential

| Ingredient | Bioaccumulation | |
|------------------|------------------------|--|
| cellulose | LOW (LogKOW = -5.1249) | |
| Mobility in soil | | |

| mobility in con | |
|-----------------|----------------|
| Ingredient | Mobility |
| cellulose | LOW (KOC = 10) |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

| Product / Packaging disposal | 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

GRADED SAND IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

Australia Inventory of Chemical Substances (AICS)

| Australia Exposure Standards | Australia Inventory of Chemical Substances (AICS) |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| CALCIUM CARBONATE IS FOUND ON THE FOLLOWING REGULATORY LISTS | |
| Australia Exposure Standards | Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - |
| Australia Inventory of Chemical Substances (AICS) | Schedule 6 |
| Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - | GESAMP/EHS Composite List - GESAMP Hazard Profiles |
| Schedule 10 / Appendix C | IMO IBC Code Chapter 18: List of products to which the Code does not apply |
| Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 | |
| CELLULOSE IS FOUND ON THE FOLLOWING REGULATORY LISTS | |
| Australia Exposure Standards | International WHO List of Proposed Occupational Exposure Limit (OEL) Values for |
| Australia Inventory of Chemical Substances (AICS) | Manufactured Nanomaterials (MNMS) |
| | |
| SILICA CRYSTALLINE - QUARTZ IS FOUND ON THE FOLLOWING REGULATORY LISTS | |
| Australia Exposure Standards | Australia Inventory of Chemical Substances (AICS) |
| Australia Useradava Obamiaal Informatian Quatam (UQIQ) Useradava Obamiaala | |

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

National Inventory Status

| National Inventory | Status |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Australia - AICS | Yes |
| Canada - DSL | Yes |
| Canada - NDSL | No (portland cement; silica crystalline - quartz; graded sand) |
| China - IECSC | Yes |
| Europe - EINEC / ELINCS / NLP | Yes |
| Japan - ENCS | No (portland cement; cellulose) |
| Korea - KECI | Yes |
| New Zealand - NZIoC | Yes |
| Philippines - PICCS | No (portland cement) |
| USA - TSCA | Yes |
| Taiwan - TCSI | Yes |
| Mexico - INSQ | Yes |
| Vietnam - NCI | Yes |
| Russia - ARIPS | Yes |
| Legend: | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

SECTION 16 OTHER INFORMATION

| Revision Date | 08/11/2019 |
|---------------|------------|
| Initial Date | 29/09/2016 |

SDS Version Summary

| Version | Issue Date | Sections Updated |
|---------|------------|--------------------------------------------------------------------------------|
| 4.1.1.1 | 01/11/2019 | One-off system update. NOTE: This may or may not change the GHS classification |
| 5.1.1.1 | 08/11/2019 | Physical Properties, Name |

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 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_o 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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end of SDS