

# **ARDEX BR 460 Flow**

Ardex (Ardex Australia)

Chemwatch: **71-9427** Version No: **2.1.1.1** 

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: **29/11/2016**Print Date: **30/11/2016**S.GHS.AUS.EN

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

#### **Product Identifier**

| Product name                  | ARDEX BR 460 Flow          |
|-------------------------------|----------------------------|
| Synonyms                      | Cement Based Repair Mortar |
| Other means of identification | Not Available              |

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

Relevant identified uses Concrete repair.

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

| Registered company name | Ardex (Ardex Australia)                       |
|-------------------------|---|
| Address                 | 20 Powers Road Seven Hills NSW 2147 Australia |
| Telephone               | 1800 224 070                                  |
| Fax                     | 1300 780 102                                  |
| Website                 | Not Available                                 |
| Email                   | Not Available                                 |

# Emergency telephone number

| Association / Organisation        | Not Available                   |  |
|-----------------------------------|---------------------------------|--|
| Emergency telephone numbers       | 1800 224 070 (Mon-Fri, 9am-5pm) |  |
| Other emergency telephone numbers | Not Available                   |  |

# **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

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

## CHEMWATCH HAZARD RATINGS

|              | Min | Max |                         |
|--------------|-----|-----|-------------------------|
| Flammability | 0   |     |                         |
| Toxicity     | 1   |     | 0 = Minimum             |
| Body Contact | 3   |     | 1 = Low<br>2 = Moderate |
| Reactivity   | 0   |     | 3 = High                |
| Chronic      | 2   |     | 4 = Extreme             |

| Poisons Schedule   | 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 e (respiratory tract irritation) |  |  |
| Legend:  | 1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI |  |

## Label elements

GHS label elements





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| 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.  |
| Precautionary statement(s | ) Prevention   |
| 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.  |
| P362                      | Take off contaminated clothing and wash before reuse.  |
| P302+P352                 | 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                                       |
|---------------|-----------|--|
| 65997-15-1    | 30-60     | portland cement                            |
| 14808-60-7.   | 30-70     | graded sand                                |
| Not Available | 1-10      | Ingredients determined not to be hazardous |

# **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   | <ul> <li>If furnes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>                        |
| Ingestion    | <ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>                            |

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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**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           | <ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul> |  |
| Fire/Explosion Hazard   | Non combustible.  Not considered a significant fire risk, however containers may burn. silicon dioxide (SiO2) May emit poisonous furnes. May emit corrosive furnes.   |  |
| 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 | <ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> </ul> |
|--------------|--|
| Major Spills | Moderate hazard.  ► CAUTION: Advise personnel in area.  ► Alert Emergency Services and tell them location and nature of hazard.  ► 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                 | <ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul> |  |
| Other information             | <ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>         |  |

| Conditions for safe storage, including 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                                      | <ul> <li>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.</li> <li>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.</li> <li>Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.</li> <li>Avoid contact with copper, aluminium and their alloys.</li> </ul> |  |

## **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 | portland<br>cement | Portland cement | 10 mg/m3 | Not<br>Available | Not<br>Available | Not<br>Available |

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| Australia Exposure Standards               | graded sand           | Silica - Crystalline: Quartz (respirable dust) / Quartz (redust) | espirable  | 0.1<br>mg/m3  | Not<br>Available | Not<br>Available | Not<br>Available |
|--|-----------------------|--|------------|---------------|------------------|------------------|------------------|
| EMERGENCY LIMITS                           |                       |  |            |               |                  |                  |                  |
| Ingredient                                 | Material name         |  | TEEL-1     |               | TEEL-2           | TEE              | L-3              |
| graded sand                                | Silica, crystalline-  | quartz; (Silicon dioxide)  | 0.075 mg/m | 13            | 33 mg/m3         | 200              | mg/m3            |
| Ingredient                                 | Original IDLH         |  |            | Revised ID    | DLH              |                  |                  |
| portland cement                            | N.E. mg/m3 / N.E. ppm |  |            | 5,000 mg/m    | 3                |                  |                  |
| graded sand                                | N.E. mg/m3 / N.E. ppm |  |            | 50 mg/m3      |                  |                  |                  |
| Ingredients determined not to be hazardous | Not Available         |  |            | Not Available | le               |                  |                  |

#### **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.

#### Personal protection











#### Eye and face protection

- Safety glasses with side shields
- Chemical goggles
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

#### Skin protection

See Hand protection below

#### NOTE:

- Fig. The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- ▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final

# Hands/feet protection

choice Personal hygiene is a key element of effective hand care.

▶ Neoprene rubber gloves

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

- polychloroprene.
- nitrile rubber.
- butvl rubber.

# **Body protection**

See Other protection below

Other protection

- Overalls
- ▶ P.V.C. apron.
- ▶ Barrier cream.
- Thermal hazards
- Not Available

#### Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:000 & 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<br>Air-line*      | -                    | PAPR-P1<br>-           |
| 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                |

<sup>\* -</sup> 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
- ▶ Use approved positive flow mask if significant quantities of dust becomes airborne.

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▶ Try to avoid creating dust conditions.

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

## Information on basic physical and chemical properties

| Appearance                                   | Grey/Green powder; insoluble in water. |   |                |
|--|--|---|----------------|
| Physical state                               | Divided Solid                          | Relative density (Water = 1)            | Not Available  |
| Odour  | Not Available                          | Partition coefficient n-octanol / water | Not Available  |
| Odour threshold                              | Not Available                          | Auto-ignition temperature (°C)          | Not Available  |
| 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 Available                          | Molecular weight (g/mol)                | Not Applicable |
| Flash point (°C)                             | Not Available                          | Taste                                   | Not Available  |
| Evaporation rate                             | Not Available                          | Explosive properties                    | Not Available  |
| Flammability                                 | Not Available                          | Oxidising properties                    | Not Available  |
| Upper Explosive Limit (%)                    | Not Available                          | Surface Tension (dyn/cm or mN/m)        | Not Applicable |
| Lower Explosive Limit (%)                    | Not Available                          | Volatile Component (%vol)               | Not Applicable |
| Vapour pressure (kPa)                        | Not Applicable                         | Gas group                               | Not Available  |
| Solubility in water (g/L)                    | Immiscible                             | pH as a solution (1%)                   | Not Available  |
| Vapour density (Air = 1)                     | Not Available                          | VOC g/L                                 | Not Applicable |

## **SECTION 10 STABILITY AND REACTIVITY**

| Reactivity                         | See section 7  |
|------------------------------------|--|
| Chemical stability                 | <ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |
| 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 toxicologic | cal 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                  | Accidental ingestion of the material may be damaging to the health of the individual.  |
| Skin Contact               | This material can cause inflammation of the skin on contact in some persons.  The material may accentuate any pre-existing dermatitis condition  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                    | Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.  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 due 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.  Overexposure to respirable dust may cause coughing, wheezing, difficulty in breathing and impaired lung function. Chronic symptoms may include decreased vital lung capacity, chest infections  Repeated exposures, in an occupational setting, to high levels of fine- divided dusts may produce a condition known as pneumoconiosis which is the lodgement |

of any inhaled dusts in the lung irrespective of the effect. This is particularly true when a significant number of particles less than 0.5 microns (1/50,000 inch),

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|                                      | are present. Lung shadows are seen in the X-ray. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.   |                          |  |  |
|--------------------------------------|---|--------------------------|--|--|
|                                      |   |                          |  |  |
| ADDEV DD 400 Flaur                   | TOXICITY  | IRRITATION               |  |  |
| ARDEX BR 460 Flow                    | Not Available   | Not Available            |  |  |
|                                      | TOXICITY  | IRRITATION               |  |  |
| portland cement                      | Not Available   | Not Available            |  |  |
|                                      | TOXICITY  | IRRITATION               |  |  |
| graded sand                          | Not Available   | Not Available            |  |  |
| Legend:                              | Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances   |                          |  |  |
|                                      |   |                          |  |  |
| PORTLAND CEMENT                      | 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 immune reactions.  Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. |                          |  |  |
| PORTLAND CEMENT &<br>GRADED SAND     | No significant acute toxicological data identified in literature sear   | rch.                     |  |  |
| Acute Toxicity                       | 0   | Carcinogenicity          | 0  |  |
| Skin Irritation/Corrosion            | <b>✓</b>  | Reproductivity           | 0  |  |
| Serious Eye<br>Damage/Irritation     | <b>~</b>  | STOT - Single Exposure   | <b>~</b>   |  |
| Respiratory or Skin<br>sensitisation | •   | STOT - Repeated Exposure | 0  |  |
| Mutagenicity                         | 0   | Aspiration Hazard        | 0  |  |
|                                      |   | Legend: 🗶                | - Data available but does not fill the criteria for classification |  |

✓ – Data required to make classification available

Data Not Available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

## Toxicity

| Ingredient    | Endpoint                      | Test Duration (hr)  | Species                        | Value          | Source         |
|---------------|-------------------------------|---|--------------------------------|----------------|----------------|
| Not Available | Not Applicable                | Not Applicable  | Not Applicable                 | Not Applicable | Not Applicable |
| Legend:       | Aquatic Toxicity Data (Estima | icity Data 2. Europe ECHA Registere<br>ted) 4. US EPA, Ecotox database - A<br>TI (Japan) - Bioconcentration Data 8. | quatic Toxicity Data 5. ECETOC | ,              |                |

# **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

- ▶ 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.

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- ▶ 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

 $\parallel$  PORTLAND CEMENT(65997-15-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

#### GRADED SAND(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   |

| National Inventory               | Status  |
|----------------------------------|---|
| Australia - AICS                 | Y   |
| Canada - DSL                     | Υ   |
| Canada - NDSL                    | N (portland cement; graded sand)  |
| China - IECSC                    | Υ   |
| Europe - EINEC / ELINCS /<br>NLP | Υ   |
| Japan - ENCS                     | N (portland cement)   |
| Korea - KECI                     | Υ   |
| New Zealand - NZIoC              | Υ   |
| Philippines - PICCS              | N (portland cement)   |
| USA - TSCA                       | Υ   |
| Legend:                          | Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

## **SECTION 16 OTHER INFORMATION**

#### Other information

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

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

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

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BEI: Biological Exposure Index

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