

# **Ardex K12 New**

Ardex (Ardex NZ)

Chemwatch: **33-1256** Version No: **4.1.1.1** 

Safety Data Sheet according to HSNO Regulations

Chemwatch Hazard Alert Code: 3

Issue Date: **05/01/2016** Print Date: **29/07/2016** S.GHS.NZL.EN

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

#### **Product Identifier**

| Product name                  | Ardex K12 New |
|-------------------------------|---------------|
| Synonyms                      | Not Available |
| Other means of identification | Not Available |

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

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

| Registered company name | Ardex (Ardex NZ)                                    | Ardex (Ardex Australia)                       | Ardex   |
|-------------------------|---|---|---|
| Address                 | 32 Lane Street Christchurch Woolston New<br>Zealand | 20 Powers Road NSW Seven Hills 2147 Australia | 400 Ardex Park Drive PA Aliquippa 15001 United States |
| Telephone               | +64 3373 6928                                       | 1800 224 070                                  | '+1 724 203 5000                                      |
| Fax                     | +64 3384 9779                                       | 1300 780 102                                  | Not Available   |
| Website                 | Not Available                                       | Not Available                                 | https://www.ardex.com/                                |
| Email                   | Not Available                                       | Not Available                                 | Not Available   |

## Emergency telephone number

| Association / Organisation        | Not Available | Not Available                   | Not Available |
|-----------------------------------|---------------|---------------------------------|---------------|
| Emergency telephone numbers       | +64 3373 6900 | 1800 224 070 (Mon-Fri, 9am-5pm) | Not Available |
| Other emergency telephone numbers | Not Available | Not Available                   | Not Available |

#### **SECTION 2 HAZARDS IDENTIFICATION**

# Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.

# CHEMWATCH HAZARD RATINGS

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

| Classification <sup>[1]</sup>                   | 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 Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI  |
| Determined by Chemwatch using GHS/HSNO criteria | 6.3A, 6.5B (contact), 6.9 (respiratory), 8.3A   |

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.  |  |
| P363           | Wash contaminated clothing before reuse.   |  |

#### 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.   | 30-60     | graded sand          |
| 1317-65-3     | 30-60     | limestone            |
| Not Available | <10       | additives, regulated |

# **SECTION 4 FIRST AID MEASURES**

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

#### Description of first aid measures

| Description of first aid me | asures   |
|-----------------------------|--|
| 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 fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>                         |
| Ingestion                   | <ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>  |

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

Treat symptomatically.

#### **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

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

#### Advice for firefighters

# Fire Fighting

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

# Fire/Explosion Hazard

- Solid which exhibits difficult combustion or is difficult to ignite.
- Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of
  ignition, i.e. flame or spark, will cause fire or explosion.
- Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited; once initiated larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.
- A dust explosion may release large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive force capable of damaging plant and buildings and injuring people.

Other decomposition products include; carbon monoxide (CO) carbon dioxide (CO2) nitrogen oxides (NOx) silicon dioxide (SiO2) other pyrolysis products typical of burning organic materialMay emit poisonous fumes. May emit corrosive fumes.

#### **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

- Clean up all spills immediately.
- Avoid breathing dust and contact with skin and eyes
- ▶ Wear protective clothing, gloves, safety glasses and dust respirator.
- ▶ Use dry clean up procedures and avoid generating dust.

#### 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

- ► Avoid all personal contact, including inhalation.
- ► Wear protective clothing when risk of exposure occurs.
- ▶ Use in a well-ventilated area.

# Safe handling

- Prevent concentration in hollows and sumps.
- Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing
  medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions)
- ▶ Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.
- ▶ Establish good housekeeping practices.
- ▶ Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.

#### Other information

- Keep dry.
- ► Store under cover.
- ► Protect containers against physical damage.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

#### 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

- 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.
- 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 strong acids, acid chlorides, acid anhydrides and chloroformates.
- Avoid contact with copper, aluminium and their alloys.

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▶ Avoid reaction with oxidising agents

#### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **Control parameters**

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

| Source  | Ingredient         | Material name                 | TWA                          | STEL             | Peak             | Notes   |
|---|--------------------|-------------------------------|------------------------------|------------------|------------------|---|
| New Zealand Workplace<br>Exposure Standards (WES) | portland<br>cement | Portland cement               | 10 mg/m3                     | Not<br>Available | Not<br>Available | The value for inhalable dust containing no asbestos and less than 1% free silica.                 |
| New Zealand Workplace<br>Exposure Standards (WES) | graded sand        | Silica-Crystalline,<br>Quartz | 0.2 Respirable dust<br>mg/m3 | Not<br>Available | Not<br>Available | Not Available   |
| New Zealand Workplace<br>Exposure Standards (WES) | limestone          | Calcium carbonate             | 10 mg/m3                     | Not<br>Available | Not<br>Available | 2011 correction;The value for inhalable dust containing no asbestos and less than 1% free silica. |

#### **EMERGENCY LIMITS**

| Ingredient  | Material name                                 | TEEL-1      | TEEL-2      | TEEL-3      |
|-------------|---|-------------|-------------|-------------|
| graded sand | Silica, crystalline-quartz; (Silicon dioxide) | 0.025 mg/m3 | 0.025 mg/m3 | 0.025 mg/m3 |
| limestone   | Limestone; (Calcium carbonate; Dolomite)      | 27 mg/m3    | 27 mg/m3    | 1300 mg/m3  |
| limestone   | Carbonic acid, calcium salt                   | 45 mg/m3    | 210 mg/m3   | 1300 mg/m3  |

| Ingredient           | Original IDLH         | Revised IDLH  |
|----------------------|-----------------------|---------------|
| portland cement      | N.E. mg/m3 / N.E. ppm | 5,000 mg/m3   |
| graded sand          | N.E. mg/m3 / N.E. ppm | 50 mg/m3      |
| limestone            | Not Available         | Not Available |
| additives, regulated | Not Available         | Not Available |

#### **Exposure controls**

# Appropriate engineering controls

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

- 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.
Suitability and durability of glove type is dependent on usage.

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.
- butyl 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-Eace Pechirator | Full-Face Respirator | Powered Air Respirator  |  |
|-------------------------------------|----------------------|----------------------|-------------------------|--|
| Required Willimum Protection Factor | naii-race Respirator | Full-race Respirator | FOWEIEU AII RESDII ALUI |  |

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| up to 10 x ES  | P1<br>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 |

<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 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                                   | Coloured powder with a characteristic odour; slightly soluble in water. |   |                |
|--|---|---|----------------|
| Physical state                               | Divided Solid   | Relative density (Water = 1)            | 1.2            |
| 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 Applicable  | 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 (g/L)                    | Partly miscible   | pH as a solution (1%)                   | Not Available  |
| Vapour density (Air = 1)                     | Not Applicable  | 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

The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

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.

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.

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#### The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating Ingestion animal or human evidence. The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Handling wet cement can cause dermatitis. Cement when wet is quite alkaline and this alkali action on the skin contributes strongly to cement contact dermatitis since it may cause drying and defatting of the skin which is followed by hardening, cracking, lesions developing, possible infections of lesions and penetration Skin Contact by soluble salts. 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. 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. There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. 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 Chronic dermatitis can be characterised by fissures, eczematous rash, dystrophic nails, and dry skin; acute contact with highly alkaline mixtures may cause localised 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), are present. Lung shadows are seen in the X-ray. TOXICITY IRRITATION Ardex K12 New Not Available Not Available TOXICITY IRRITATION portland cement Not Available Not Available TOXICITY IRRITATION graded sand Not Available Not Available TOXICITY IRRITATION limestone Oral (rat) LD50: 6450 mg/kg<sup>[2]</sup> Skin (rabbit): 500 mg/24h-moderate Leaend: 1. 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 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. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested. PORTLAND CEMENT 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. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis LIMESTONE The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin Eye (rabbit) 0.75: mg/24h - No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects. PORTLAND CEMENT & No significant acute toxicological data identified in literature search. **GRADED SAND Acute Toxicity** Carcinogenicity 0 Skin Irritation/Corrosion Reproductivity 0 Serious Eye STOT - Single Exposure Damage/Irritation Respiratory or Skin 0 STOT - Repeated Exposure sensitisation 0 **Aspiration Hazard** 0 Mutagenicity

- 🗶 Data available but does not fill the criteria for classification
- ✓ Data required to make classification available
- O Data Not Available to make classification

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#### **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

| Ingredient | Endpoint   | Test Duration (hr) | Species                       | Value      | Source |
|------------|--|--------------------|-------------------------------|------------|--------|
| limestone  | LC50   | 96                 | Fish                          | >56000mg/L | 4      |
| limestone  | EC50   | 72                 | Algae or other aquatic plants | >14mg/L    | 2      |
| limestone  | NOEC   | 72                 | Algae or other aquatic plants | 14mg/L     | 2      |
| Legend:    | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data |                    |                               |            |        |

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

| Ingredient | Persistence: Water/Soil               | Persistence: Air                      |
|------------|---------------------------------------|---------------------------------------|
|            | No Data available for all ingredients | No Data available for all ingredients |

#### **Bioaccumulative potential**

| Ingredient | Bioaccumulation                       |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

#### Mobility in soil

| Ingredient | Mobility                              |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

# **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Product / Packaging

disposal

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ▶ Reduction
- ► Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- ► DO NOT allow wash water from cleaning or process equipment to enter drains.
- ▶ It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- ▶ Where in doubt contact the responsible authority.

Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

#### **SECTION 14 TRANSPORT INFORMATION**

# Labels Required

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

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

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

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

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

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

| HSR Number | Group Standard  |
|------------|---|
| HSR002624  | N.O.S. (Subsidiary Hazard) Group Standard 2006                  |
| HSR002535  | Compressed Gas Mixtures (Subsidiary Hazard) Group Standard 2006 |
| HSR002596  | Laboratory Chemicals and Reagent Kits Group Standard 2006       |
| HSR002530  | Cleaning Products (Subsidiary Hazard) Group Standard 2006       |

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| HSR002585 | Fuel Additives (Subsidiary Hazard) Group Standard 2006   |
|-----------|--|
| HSR002519 | Aerosols (Subsidiary Hazard) Group Standard 2006   |
| HSR002521 | Animal Nutritional and Animal Care Products Group Standard 2006  |
| HSR002606 | Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2006 |
| HSR002644 | Polymers (Subsidiary Hazard) Group Standard 2006   |
| HSR002647 | Reagent Kits Group Standard 2006   |
| HSR002612 | Metal Industry Products (Subsidiary Hazard) Group Standard 2006  |
| HSR002670 | Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2006                                  |
| HSR002503 | Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2006                   |
| HSR002638 | Photographic Chemicals (Subsidiary Hazard) Group Standard 2006   |
| HSR002565 | Embalming Products (Subsidiary Hazard) Group Standard 2006   |
| HSR002578 | Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2006                           |
| HSR002558 | Dental Products (Subsidiary Hazard) Group Standard 2006  |
| HSR002684 | Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2006  |
| HSR002573 | Fire Fighting Chemicals Group Standard 2006  |
| HSR100425 | Pharmaceutical Active Ingredients Group Standard 2010  |
| HSR002600 | Leather and Textile Products (Subsidiary Hazard) Group Standard 2006                                     |
| HSR002571 | Fertilisers (Subsidiary Hazard) Group Standard 2006  |
| HSR002648 | Refining Catalysts Group Standard 2006   |
| HSR002653 | Solvents (Subsidiary Hazard) Group Standard 2006   |
| HSR002544 | Construction Products (Subsidiary Hazard) Group Standard 2006  |
| HSR002549 | Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2006   |
| HSR002552 | Cosmetic Products Group Standard 2006  |
| HSR100757 | Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2012                                     |
| HSR100758 | Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2012                      |
| HSR100759 | Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2012                        |
| HSR100628 | Straight-chained Lepidopteran Sex Pheromone Group Standard 2012  |
|           |  |

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

New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES)

#### GRADED SAND(14808-60-7.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES)

# LIMESTONE(1317-65-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Workplace Exposure Standards (WES)

New Zealand Inventory of Chemicals (NZIoC)

# **Location Test Certificate**

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, a location test certificate is required when quantity greater than or equal to those indicated below

| Hazard Class   | Quantity beyond which controls apply for closed containers | Quantity beyond which controls apply when use occurring in open containers |
|----------------|--|--|
| Not Applicable | Not Applicable   | Not Applicable   |

# **Approved Handler**

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations and Regulation 9 of the Hazardous Substances (Classes 6, 8, and 9 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

| Class of substance | Quantities     |
|--------------------|----------------|
| Not Applicable     | Not Applicable |

Refer Group Standards for further information

#### **Tracking Requirements**

Not Applicable

| National Inventory               | Status                           |
|----------------------------------|----------------------------------|
| Australia - AICS                 | Y                                |
| Canada - DSL                     | Y                                |
| Canada - NDSL                    | N (portland cement; graded sand) |
| China - IECSC                    | Y                                |
| Europe - EINEC / ELINCS /<br>NLP | Y                                |

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#### Ardex K12 New

| Japan - ENCS        | N (portland cement)   |
|---------------------|---|
| Korea - KECI        | Y   |
| New Zealand - NZIoC | Y   |
| Philippines - PICCS | N (portland cement)   |
| USA - TSCA          | Y   |
| 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

BEI: Biological Exposure Index

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