

Ardex K301 Ardex (Ardex Australia)

Chemwatch: **4656-73** Version No: **6.1.1.1**

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: **01/11/2019**Print Date: **05/08/2020**S.GHS.AUS.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

| Product name | Ardex K301 |
|-------------------------------|---------------|
| Synonyms | Not Available |
| Other means of identification | Not Available |

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

Relevant identified uses Levelling of uneven concrete surfaces for internal and external areas.

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 | Ardex (Ardex Australia) |
|-----------------------------------|---------------------------------|
| 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 | 0 | | | 0 = Minimum |
| Body Contact | 3 | | - 1 | 1 = Low |
| Reactivity | 0 | | | 2 = Moderate |
| Chronic | 2 | | i | 3 = High 4 = Extreme |

| 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 Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |

Label elements

Hazard pictogram(s)





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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) Pro | evention |
| | Use only outdoors or in a well-ventilated area. |
| P271 | |
| P271 P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| | Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fumes. |

| 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. | | | |
| P321 | Specific treatment (see advice on this label). | | | |
| P362 | Take off contaminated clothing and wash before reuse. | | | |

Precautionary statement(s) Storage

| 1 Todational y Stationion (6) 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. | 30-60 | graded sand |
| 65997-15-1 | 10-30 | portland cement |
| 471-34-1 | 10-30 | calcium carbonate |
| 65997-16-2 | <10 | calcium aluminate cement |
| Not Available | <10 | additives, unregulated |

SECTION 4 First aid measures

of finat aid

| Description of first aid measur | es | |
|---------------------------------|--|--|
| 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.

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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.

| 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 | Non combustible. Not considered a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: sulfur oxides (SOx) silicon dioxide (SiO2) metal oxides 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

| | <u> </u> |
|--------------|---|
| 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 | |
|-------------------------------|--|
| 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. |
| 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. |

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

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| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|------------------------------|----------------------|--|---------------|------------------|------------------|--|
| Australia Exposure Standards | graded sand | Silica - Crystalline: Quartz (respirable dust) | 0.05 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. |

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 | Carbonic acid, calcium salt | 45 mg/m3 | 210 mg/m3 | 1,300 mg/m3 |

| Ingredient | Original IDLH | Revised IDLH |
|--------------------------|---------------------|---------------|
| graded sand | 25 mg/m3 / 50 mg/m3 | Not Available |
| portland cement | 5,000 mg/m3 | Not Available |
| calcium carbonate | Not Available | Not Available |
| calcium aluminate cement | Not Available | Not Available |

Occupational Exposure Banding

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|--------------------------|--|---|
| calcium aluminate cement | E | ≤ 0.01 mg/m³ |
| Notes: | Occupational exposure banding is a process of assigning chemicals into s adverse health outcomes associated with exposure. The output of this pro range of exposure concentrations that are expected to protect worker hea | cess is an occupational exposure band (OEB), which corresponds to a |

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.

Hands/feet protection

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 choice.

Personal hygiene is a key element of effective hand care.

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.Skin cleansing cream.

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* | - |

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| 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.

Not Applicable

Not Applicable

Not Applicable

Not Applicable

Immiscible

► Try to avoid creating dust conditions.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Off-white powder; insoluble in water. Loose Bulk Density: 1.3 approx. | | |
|--|---|---|----------------|
| Physical state | Divided Solid | Relative density (Water = 1) | 2.6 approx. |
| 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 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 |

Surface Tension (dyn/cm or

Volatile Component (%vol)

pH as a solution (1%)

mN/m)

Gas group

VOC g/L

Not Applicable

Not Applicable

Not Available

Not Available

Not Available

SECTION 10 Stability and reactivity

Upper Explosive Limit (%)

Lower Explosive Limit (%)

Vapour pressure (kPa)

Vapour density (Air = 1)

Solubility in water

| 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 ef | fects |
|---------------------------------|--|
| Inhaled | 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. 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 classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. |
| Skin Contact | 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. The material may accentuate any pre-existing dermatitis condition 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 by soluble salts.

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| | Open cuts, abraded or irritated skin should not be exp Entry into the blood-stream, through, for example, cuts prior to the use of the material and ensure that any ex | s, abrasions or lesions, may produce | systemic injury with harmful effects. Examine the skin | |
|--|--|--|---|--|
| Eye | If applied to the eyes, this material causes severe eye | | | |
| Chronic | Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body 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 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 the breathable dust may cause coughing, wheezing, difficulty in breathing and impaired lung function. Chronic symptoms may include decreased vital lung capacity and chest infections. Repeated exposures in the workplace 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 (1/50000 inch) are present. | | | |
| | TOXICITY | IRRITATION | | |
| Ardex K301 | Not Available | Not Available | | |
| | TOXICITY | IRRITATION | | |
| graded sand | Oral (rat) LD50: =500 mg/kg ^[2] | Not Available | | |
| | TOXICITY | IRRITATION | | |
| portland cement | Not Available | Not Available | | |
| | TOXICITY | 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 | effect observed (not irritating) ^[1] | |
| | | Skin (rabbit): 50 | 0 mg/24h-moderate | |
| | | Skin: no adverse | e effect observed (not irritating) ^[1] | |
| | | | | |
| | TOXICITY | IRRITATION | | |
| calcium aluminate cement | TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] | IRRITATION Not Available | | |
| calcium aluminate cement | | | | |
| calcium aluminate cement Legend: | dermal (rat) LD50: >2000 mg/kg[1] | Not Available stances - Acute toxicity 2.* Value obt | ained from manufacturer's SDS. Unless otherwise | |
| | dermal (rat) LD50: >2000 mg/kg ^[1] Oral (rat) LD50: >2000 mg/kg ^[1] 1. Value obtained from Europe ECHA Registered Sub | Not Available stances - Acute toxicity 2.* Value obta cic Effect of chemical Substances s a group and may not be specific to act eczema, more rarely as urticaria cune reaction of the delayed type. Oth | this product. or Quincke's oedema. The pathogenesis of contact ner allergic skin reactions, e.g. contact urticaria, | |
| Legend: | dermal (rat) LD50: >2000 mg/kg ^[1] Oral (rat) LD50: >2000 mg/kg ^[1] 1. Value obtained from Europe ECHA Registered Subspecified data extracted from RTECS - Register of Tox The following information refers to contact allergens as Contact allergies quickly manifest themselves as conteczema involves a cell-mediated (T lymphocytes) imminvolve antibody-mediated immune reactions. The signistribution of the substance and the opportunities for No evidence of carcinogenic properties. No evidence of The material may produce severe irritation to the eye oproduce conjunctivitis. | Not Available stances - Acute toxicity 2.* Value obtains a group and may not be specific to act eczema, more rarely as urticaria of unne reaction of the delayed type. Other indicance of the contact allergen is no contact with it are equally important. of mutagenic or teratogenic effects. causing pronounced inflammation. Re | this product. or Quincke's oedema. The pathogenesis of contact her allergic skin reactions, e.g. contact urticaria, his simply determined by its sensitisation potential: the | |
| Legend: PORTLAND CEMENT | dermal (rat) LD50: >2000 mg/kg ^[1] Oral (rat) LD50: >2000 mg/kg ^[1] 1. Value obtained from Europe ECHA Registered Sub specified data extracted from RTECS - Register of Tox The following information refers to contact allergens as Contact allergies quickly manifest themselves as contact acezema involves a cell-mediated (T lymphocytes) imminvolve antibody-mediated immune reactions. The sign distribution of the substance and the opportunities for No evidence of carcinogenic properties. No evidence of The material may produce severe irritation to the eye oproduce conjunctivitis. The material may cause skin irritation after prolonged | Not Available stances - Acute toxicity 2.* Value obtains a group and may not be specific to act eczema, more rarely as urticaria of une reaction of the delayed type. Other inficance of the contact allergen is no contact with it are equally important. For mutagenic or teratogenic effects, causing pronounced inflammation. Reference or repeated exposure and may produce the standard or repeated e | this product. or Quincke's oedema. The pathogenesis of contact per allergic skin reactions, e.g. contact urticaria, a simply determined by its sensitisation potential: the expeated or prolonged exposure to irritants may | |
| Legend: PORTLAND CEMENT CALCIUM CARBONATE GRADED SAND & PORTLAND CEMENT & CALCIUM | dermal (rat) LD50: >2000 mg/kg ^[1] Oral (rat) LD50: >2000 mg/kg ^[1] 1. Value obtained from Europe ECHA Registered Sub specified data extracted from RTECS - Register of Tox The following information refers to contact allergens as Contact allergies quickly manifest themselves as conteczema involves a cell-mediated (T lymphocytes) imminvolve antibody-mediated immune reactions. The sign distribution of the substance and the opportunities for No evidence of carcinogenic properties. No evidence of The material may produce severe irritation to the eye oproduce conjunctivitis. The material may cause skin irritation after prolonged vesicles, scaling and thickening of the skin. | Not Available stances - Acute toxicity 2.* Value obtains of the control of the c | this product. or Quincke's oedema. The pathogenesis of contact per allergic skin reactions, e.g. contact urticaria, a simply determined by its sensitisation potential: the expeated or prolonged exposure to irritants may acce on contact skin redness, swelling, the production of all ends. This may be due to a non-allergic condition to high levels of highly irritating compound. Main pic individual, with sudden onset of persistent their criteria for diagnosis of RADS include a reversible | |
| Legend: PORTLAND CEMENT CALCIUM CARBONATE GRADED SAND & PORTLAND CEMENT & CALCIUM ALUMINATE CEMENT PORTLAND CEMENT & CALCIUM CARBONATE & CALCIUM ALUMINATE | dermal (rat) LD50: >2000 mg/kg ^[1] Oral (rat) LD50: >2000 mg/kg ^[1] 1. Value obtained from Europe ECHA Registered Sub specified data extracted from RTECS - Register of Tox The following information refers to contact allergens at Contact allergies quickly manifest themselves as conteczema involves a cell-mediated (T lymphocytes) imminvolve antibody-mediated immune reactions. The signification of the substance and the opportunities for No evidence of carcinogenic properties. No evidence of The material may produce severe irritation to the eye oproduce conjunctivitis. The material may cause skin irritation after prolonged vesicles, scaling and thickening of the skin. No significant acute toxicological data identified in liter Asthma-like symptoms may continue for months or evidence in the symptoms of the absence of proasthma-like symptoms within minutes to hours of a do airflow pattern on lung function tests, moderate to severe | Not Available stances - Acute toxicity 2.* Value obtains of the control of the c | this product. or Quincke's oedema. The pathogenesis of contact per allergic skin reactions, e.g. contact urticaria, a simply determined by its sensitisation potential: the expeated or prolonged exposure to irritants may acce on contact skin redness, swelling, the production of all ends. This may be due to a non-allergic condition to high levels of highly irritating compound. Main pic individual, with sudden onset of persistent their criteria for diagnosis of RADS include a reversible | |
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| PORTLAND CEMENT CALCIUM CARBONATE GRADED SAND & PORTLAND CEMENT & CALCIUM ALUMINATE CEMENT PORTLAND CEMENT & CALCIUM CARBONATE & CALCIUM ALUMINATE CEMENT Acute Toxicity | dermal (rat) LD50: >2000 mg/kg ^[1] Oral (rat) LD50: >2000 mg/kg ^[1] 1. Value obtained from Europe ECHA Registered Sub specified data extracted from RTECS - Register of Tox The following information refers to contact allergens at Contact allergies quickly manifest themselves as conteczema involves a cell-mediated (T lymphocytes) imminvolve antibody-mediated immune reactions. The sign distribution of the substance and the opportunities for No evidence of carcinogenic properties. No evidence of The material may produce severe irritation to the eye oproduce conjunctivitis. The material may cause skin irritation after prolonged vesicles, scaling and thickening of the skin. No significant acute toxicological data identified in liter. Asthma-like symptoms may continue for months or evidence in the symptoms within minutes to hours of a doairflow pattern on lung function tests, moderate to sevilymphocytic inflammation, without eosinophilia. | Stances - Acute toxicity 2.* Value obtains of the content of the delayed type. Other content of the contact allergen is nor contact with it are equally important. Of mutagenic or teratogenic effects, causing pronounced inflammation. Resort repeated exposure and may product of the content of | this product. or Quincke's oedema. The pathogenesis of contact per allergic skin reactions, e.g. contact urticaria, a simply determined by its sensitisation potential: the expeated or prolonged exposure to irritants may not contact skin redness, swelling, the production of all ends. This may be due to a non-allergic condition on high levels of highly irritating compound. Main poic individual, with sudden onset of persistent the criteria for diagnosis of RADS include a reversible acholine challenge testing, and the lack of minimal | |
| PORTLAND CEMENT CALCIUM CARBONATE GRADED SAND & PORTLAND CEMENT & CALCIUM ALUMINATE CEMENT PORTLAND CEMENT & CALCIUM CARBONATE & CALCIUM ALUMINATE CEMENT Acute Toxicity Skin Irritation/Corrosion | dermal (rat) LD50: >2000 mg/kg ^[1] Oral (rat) LD50: >2000 mg/kg ^[1] 1. Value obtained from Europe ECHA Registered Subspecified data extracted from RTECS - Register of Tox The following information refers to contact allergens as Contact allergies quickly manifest themselves as conteczema involves a cell-mediated (T lymphocytes) imminvolve antibody-mediated immune reactions. The signistribution of the substance and the opportunities for No evidence of carcinogenic properties. No evidence of The material may produce severe irritation to the eye oproduce conjunctivitis. The material may cause skin irritation after prolonged vesicles, scaling and thickening of the skin. No significant acute toxicological data identified in liter Asthma-like symptoms may continue for months or evenown as reactive airways dysfunction syndrome (RAI criteria for diagnosing RADS include the absence of pasthma-like symptoms within minutes to hours of a doairflow pattern on lung function tests, moderate to sevelymphocytic inflammation, without eosinophilia. | Stances - Acute toxicity 2.* Value obtains of the control of the c | this product. or Quincke's oedema. The pathogenesis of contact per allergic skin reactions, e.g. contact urticaria, a simply determined by its sensitisation potential: the expeated or prolonged exposure to irritants may be even contact skin redness, swelling, the production of all ends. This may be due to a non-allergic condition to high levels of highly irritating compound. Main bic individual, with sudden onset of persistent per criteria for diagnosis of RADS include a reversible acholine challenge testing, and the lack of minimal | |

Legend:

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

SECTION 12 Ecological information

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| Ardex K301 | 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 |
| portland cement | Endpoint | Test Duration (hr) | Species | Value | Source |
| | Not Available | Not Available | Not Available | Not Available | Not Available |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | LC50 | 96 | Fish | >56000mg/L | 4 |
| calcium carbonate | EC50 | 72 | Algae or other aquatic plants | >14mg/L | 2 |
| | EC10 | 72 | Algae or other aquatic plants | >14mg/L | 2 |
| | NOEC | 72 | Algae or other aquatic plants | 14mg/L | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | LC50 | 96 | Fish | >100mg/L | 2 |
| calcium aluminate cement | EC50 | 48 | Crustacea | 5.4mg/L | 2 |
| | EC50 | 72 | Algae or other aquatic plants | 3.6mg/L | 2 |
| | NOEC | 72 | Algae or other aquatic plants | 2.6mg/L | 2 |
| Legend: | V3.12 (QSAR |) - Aquatic Toxicity Data (Estimated) 4. | HA Registered Substances - Ecotoxicological Informa US EPA, Ecotox database - Aquatic Toxicity Data 5. E IT (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

- ▶ Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.

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.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- $\mbox{\ensuremath{\,^{\blacktriangleright}}}$ 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

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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 Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australian Inventory of Industrial Chemicals (AIIC)
Chemical Footprint Project - Chemicals of High Concern List

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

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1 : Carcinogenic to humans

portland cement is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

calcium carbonate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

calcium aluminate cement is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

National Inventory Status

| National Inventory | Status | |
|--------------------------------|---|--|
| Australia - AIIC | Yes | |
| Australia - Non-Industrial Use | No (graded sand; portland cement; calcium carbonate; calcium aluminate cement) | |
| Canada - DSL | Yes | |
| Canada - NDSL | No (graded sand; portland cement; calcium aluminate cement) | |
| China - IECSC | Yes | |
| Europe - EINEC / ELINCS / NLP | Yes | |
| Japan - ENCS | No (portland cement) | |
| Korea - KECI | Yes | |
| New Zealand - NZIoC | Yes | |
| Philippines - PICCS | No (portland cement; calcium aluminate cement) | |
| USA - TSCA | Yes | |
| Taiwan - TCSI | Yes | |
| Mexico - INSQ | No (calcium aluminate cement) | |
| Vietnam - NCI | Yes | |
| Russia - ARIPS | No (calcium aluminate cement) | |
| 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 | 01/11/2019 |
|---------------|------------|
| Initial Date | 23/11/2005 |

SDS Version Summary

| Version | Issue Date | Sections Updated |
|---------|------------|--|
| 5.1.1.1 | 09/02/2016 | Acute Health (inhaled), Acute Health (skin), Advice to Doctor, Chronic Health, Classification, Disposal, Engineering Control, Exposure Standard, Fire Fighter (fire/explosion hazard), First Aid (swallowed), Physical Properties, Spills (minor), Storage (storage incompatibility), Storage (storage requirement), Storage (suitable container), Toxicity and Irritation (Other) |
| 6.1.1.1 | 01/11/2019 | One-off system update. NOTE: This may or may not change the GHS classification |

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。

IDLH: Immediately Dangerous to Life or Health Concentrations

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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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