

Roofguard Solar Reflect

Ardex (Ardex Australia)

Chemwatch: **83-9235** Version No: **2.1.1.1**

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code:

Issue Date: **09/08/2017** Print Date: **10/08/2017** S.GHS.AUS.EN

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

Product Identifier

| Product name | Roofguard Solar Reflect | |
|---|--|--|
| Synonyms | Not Available | |
| Proper shipping name | NVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains zinc oxide) | |
| Other means of identification | Not Available | |
| Relevant identified uses of the substance or mixture and uses advised against | | |

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 Australia) Ardex (Ardex NZ) | |
|-------------------------|--|---------------|
| Address | 20 Powers Road Seven Hills NSW 2147 Australia 32 Lane Street Woolston Christchurch New Zealand | |
| Telephone | ephone 1800 224 070 +64 3373 6928 | |
| Fax | Fax 1300 780 102 +64 3384 9779 | |
| Website | Website Not Available Not Available | |
| Email | Not Available | Not Available |

Emergency telephone number

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

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

CHEMWATCH HAZARD RATINGS

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

| Poisons Schedule | Not Applicable | |
|---|--|--|
| Classification [1] | Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2 | |
| Legend: 1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI | | |

Label elements

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Hazard pictogram(s)



SIGNAL WORD

NOT APPLICABLE

Hazard statement(s)

H411

Toxic to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

P273

Avoid release to the environment.

Precautionary statement(s) Response

P391

Collect spillage.

Precautionary statement(s) Storage

Not Applicable

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 |
|---------------|-----------|--|
| 1314-13-2 | <5 | zinc oxide |
| 12001-26-2 | <5 | mica |
| 13463-67-7 | 1-10 | titanium dioxide |
| 112-34-5 | <5 | diethylene glycol monobutyl ether |
| Not Available | >60 | 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: Wash out immediately with fresh 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. 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 furnes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. |
| Ingestion | If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. |

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- ► Foam.
- ▶ Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility

None known.

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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.

Non combustible.

Not considered a significant fire risk, however containers may burn.

HAZCHEM

*3Z

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 | Environmental hazard - contain spillage. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. |
|--------------|---|
| Major Spills | Environmental hazard - contain spillage. Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment as required. |

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. Avoid contact with moisture. DO NOT allow clothing wet with material to stay in contact with skin |
|-------------------|---|
| Other information | Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. |

Conditions for safe storage, including any incompatibilities

| Conditions for safe storage, including any incompatibilities | | |
|--|---|--|
| Suitable container | Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. | |
| Storage incompatibility | Avoid reaction with oxidising agents Avoid strong acids, bases. | |

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 | zinc oxide | Zinc oxide (fume) | 5 mg/m3 | 10 mg/m3 / - ppm | Not Available | Not Available |
| Australia Exposure Standards | zinc oxide | Zinc oxide (dust) | 10 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | mica | Mica | 2.5 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | titanium dioxide | Titanium dioxide | 10 mg/m3 | Not Available | Not Available | Not Available |

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|-----------------------------------|--|--------------|-----------|-------------|
| zinc oxide | Zinc oxide | 10 mg/m3 | 15 mg/m3 | 2,500 mg/m3 |
| mica | Mica; (mica silicates) | 9 mg/m3 | 99 mg/m3 | 590 mg/m3 |
| titanium dioxide | Titanium oxide; (Titanium dioxide) | 30 mg/m3 | 330 mg/m3 | 2,000 mg/m3 |
| diethylene glycol monobutyl ether | Butoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monobutyl ether) | 30 ppm | 33 ppm | 200 ppm |
| Ingredient | Original IDLH | Revised IDLH | | |

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| zinc oxide | 2,500 mg/m3 | 500 mg/m3 |
|--|-----------------------|---------------|
| mica | N.E. mg/m3 / N.E. ppm | 1,500 mg/m3 |
| titanium dioxide | N.E. mg/m3 / N.E. ppm | 5,000 mg/m3 |
| diethylene glycol monobutyl ether | Not Available | Not Available |
| Ingredients determined not to be hazardous | 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









- ► 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

- ▶ Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

Hands/feet protection

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 choice.

Personal hygiene is a key element of effective hand care.

Body protection

See Other protection below

Other protection

- Overalls.P.V.C. apron.
- ▶ Barrier cream
- Thermal hazards

Not Available

Respiratory protection

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|------------------------|
| up to 10 x ES | A-AUS | - | A-PAPR-AUS / Class 1 |
| up to 50 x ES | - | A-AUS / Class 1 | - |
| up to 100 x ES | - | A-2 | A-PAPR-2 ^ |

^{^ -} Full-face

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)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| Appearance | Liquid; insoluble in water. | | |
|--|-----------------------------|---|----------------|
| Physical state | Liquid | 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 Available |
| 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 |

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| Flammability | Not Available | Oxidising properties | Not Available |
|---------------------------|---------------|----------------------------------|---------------|
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | 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 Available |

SECTION 10 STABILITY AND REACTIVITY

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

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

| Inhaled | e . | ts or irritation of the respiratory tract (as classified by EC Directives using animal models). be kept to a minimum and that suitable control measures be used in an occupational setting. |
|--------------------------------------|---|---|
| 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 | There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. 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 | There is some evidence to suggest that this material can ca | use eye irritation and damage in some persons. |
| Chronic | Substance accumulation, in the human body, may occur and | may cause some concern following repeated or long-term occupational exposure. |
| | TOXICITY | IRRITATION |
| Roofguard Solar Reflect | Not Available | Not Available |
| | TOXICITY | IRRITATION |
| zinc oxide | Oral (rat) LD50: >5000 mg/kg ^[1] | Eye (rabbit) : 500 mg/24 h - mild |
| | | Skin (rabbit) : 500 mg/24 h- mild |
| | тохісіту | IRRITATION |
| mica | Not Available | Not Available |
| | TOXICITY | IRRITATION |
| | Inhalation (rat) LC50: >2.28 mg/l/4hr ^[1] | Skin (human): 0.3 mg /3D (int)-mild * |
| titanium dioxide | Inhalation (rat) LC50: >3.56 mg/l/4hr ^[1] | |
| | Inhalation (rat) LC50: >6.82 mg/l/4hr ^[1] | |
| | Oral (rat) LD50: >2000 mg/kg ^[1] | |
| diethylene glycol monobutyl ether | TOXICITY | IRRITATION |
| | Dermal (rabbit) LD50: 2700 mg/kg ^[2] | Eye (rabbit): 20 mg/24h moderate |
| | Oral (rat) LD50: 4500 mg/kg ^[2] | Eye (rabbit): 5 mg - SEVERE |
| Legend: | Value obtained from Europe ECHA Registered Substance extracted from RTECS - Register of Toxic Effect of chemica | es - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data |

MICA No significant acute toxicological data identified in literature search.

TITANIUM DIOXIDE

The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing dysfunction of the lungs and immune system. Absorption by the stomach and intestines depends on the size of the particle. It penetrated only the outermost layer of the skin, suggesting that healthy skin may be an effective barrier.

WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. * IUCLID

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The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce This category includes diethylene glycol ethyl ether (DGEE), diethylene glycol propyl ether (DGPE) diethylene glycol butyl ether (DGBE) and diethylene glycol DIETHYLENE GLYCOL MONOBUTYL ETHER hexyl ether (DGHE) and their acetates. Studies show that they can cause kidney and liver damage, skin and eye irritation as well as blood changes but do not cause damage to the reproductive, genetic and developmental abnormalities, sensitisation or respiratory systems. However, DGEE is reported to cause sperm insufficiency. ZINC OXIDE & TITANIUM The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, DIOXIDE scaling and thickening of the skin. **Acute Toxicity** Carcinogenicity 0 0 Skin Irritation/Corrosion 0 Reproductivity 0 Serious Eye 0 STOT - Single Exposure 0 Damage/Irritation Respiratory or Skin 0 0 STOT - Repeated Exposure sensitisation 0 0 Mutagenicity **Aspiration Hazard**

Legend:

- Data available but does not fill the criteria for classification

Data available to make classification

O - Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

| | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
|--------------------------------------|------------------|--------------------|-------------------------------|------------------|------------------|
| Roofguard Solar Reflect | Not Available | Not Available | Not Available | Not Available | Not Available |
| | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
| | LC50 | 96 | Fish | 0.439mg/L | 2 |
| zinc oxide | EC50 | 48 | Crustacea | 0.105mg/L | 2 |
| zinc oxide | EC50 | 72 | Algae or other aquatic plants | 0.042mg/L | 4 |
| | BCF | 336 | Fish | 4376.673mg/L | 4 |
| | NOEC | 72 | Algae or other aquatic plants | 0.0049mg/L | 2 |
| | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURC |
| mica | Not Available | Not Available | Not Available | Not Available | Not Available |
| | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURC |
| | LC50 | 96 | Fish | 155mg/L | 2 |
| denting Part Is | EC50 | 48 | Crustacea | >10mg/L | 2 |
| titanium dioxide | EC50 | 72 | Algae or other aquatic plants | 5.83mg/L | 4 |
| | EC20 | 72 | Algae or other aquatic plants | 1.81mg/L | 4 |
| | NOEC | 336 | Fish | 0.089mg/L | 4 |
| | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURC |
| liethylene glycol monobutyl ether | LC50 | 96 | Fish | 1300mg/L | 4 |
| | EC50 | 48 | Crustacea | >100mg/L | 1 |
| | EC50 | 96 | Algae or other aquatic plants | >100mg/L | 1 |
| | NOEC | 96 | Algae or other aquatic plants | >=100mg/L | 1 |

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|-----------------------------------|-------------------------|------------------|
| titanium dioxide | HIGH | HIGH |
| diethylene glycol monobutyl ether | LOW | LOW |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|------------|-----------------|
| zinc oxide | LOW (BCF = 217) |

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| titanium dioxide | LOW (BCF = 10) |
|-----------------------------------|------------------|
| diethylene glycol monobutyl ether | LOW (BCF = 0.46) |

Mobility in soil

| Ingredient | Mobility |
|-----------------------------------|-------------------|
| titanium dioxide | LOW (KOC = 23.74) |
| diethylene glycol monobutyl ether | LOW (KOC = 10) |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- ▶ It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- ▶ Where in doubt contact the responsible authority.
- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- ▶ Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

disposal

Labels Required



Marine Pollutant



HAZCHEM •3Z

Land transport (ADG)

| UN number | 3082 |
|------------------------------|---|
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains zinc oxide) |
| Transport hazard class(es) | Class 9 Subrisk Not Applicable |
| Packing group | |
| Environmental hazard | Environmentally hazardous |
| Special precautions for user | Special provisions 274 331 335 375 AU01 Limited quantity 5 L |

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 $\,$

are not subject to this Code when transported by road or rail in;

- (a) packagings;
- (b) IBCs; or
- (c) any other receptacle not exceeding 500 kg(L).
- Australian Special Provisions (SP AU01) ADG Code 7th Ed.

Air transport (ICAO-IATA / DGR)

| UN number | 3082 | | | |
|------------------------------|---|---------------------|----------------------|--|
| UN proper shipping name | Environmentally hazardous substance, liquid, n.o.s. * (contains zinc oxide) | | | |
| Transport hazard class(es) | ICAO/IATA Class ICAO / IATA Subrisk ERG Code | 9 Not Applicable | | |
| Packing group | | | | |
| Environmental hazard | Environmentally hazardous | | | |
| Special precautions for user | Special provisions Cargo Only Packing Instructions | | A97 A158 A197 964 | |

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| Cargo Only Maximum Qty / Pack | 450 L |
|---|---------|
| Passenger and Cargo Packing Instructions | 964 |
| Passenger and Cargo Maximum Qty / Pack | 450 L |
| Passenger and Cargo Limited Quantity Packing Instructions | Y964 |
| Passenger and Cargo Limited Maximum Qty / Pack | 30 kg G |

Sea transport (IMDG-Code / GGVSee)

| UN number | 3082 | | |
|------------------------------|--|--|--|
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains zinc oxide) | | |
| Transport hazard class(es) | IMDG Class 9 IMDG Subrisk Not Applicable | | |
| Packing group | III. | | |
| Environmental hazard | Marine Pollutant | | |
| Special precautions for user | EMS Number F-A , S-F Special provisions 274 335 969 Limited Quantities 5 L | | |

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

ZINC OXIDE(1314-13-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

| Australia Exposure Standards | Australia Inventory of Chemical Substances (AICS) |
|--|---|
| Australia Hazardous Substances Information System - Consolidated Lists | |
| MICA(12001-26-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS | |
| Australia Exposure Standards | Australia Inventory of Chemical Substances (AICS) |
| Australia Hazardous Substances Information System - Consolidated Lists | |

TITANIUM DIOXIDE(13463-67-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

DIETHYLENE GLYCOL MONOBUTYL ETHER(112-34-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

| Australia Hazardous Substances | s Information System - Consolidated Lists Australia Inventory of Chemical Substances (AICS) |
|----------------------------------|---|
| National Inventory | Status |
| Australia - AICS | Y |
| Canada - DSL | Y |
| Canada - NDSL | N (diethylene glycol monobutyl ether; mica) |
| China - IECSC | Υ |
| Europe - EINEC / ELINCS / NLP | N (mica) |
| Japan - ENCS | N (diethylene glycol monobutyl ether; mica; zinc oxide) |
| Korea - KECI | Υ |
| New Zealand - NZIoC | Υ |
| Philippines - PICCS | Υ |
| USA - TSCA | N (mica) |
| 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

Ingredients with multiple cas numbers

| Name | CAS No |
|------------------|--|
| zinc oxide | 1314-13-2, 175449-32-8 |
| mica | 12001-26-2, 129899-84-9, 61076-94-6 |
| titanium dioxide | 13463-67-7, 1317-70-0, 1317-80-2, 12188-41-9, 1309-63-3, 100292-32-8, 101239-53-6, 116788-85-3, 12000-59-8, 12701-76-7, 12767-65-6, 12789-63-8, 1344-29-2, 185323-71-1, 185828-91-5, 188357-76-8, 188357-79-1, 195740-11-5, 221548-98-7, 224963-00-2, 246178-32-5, 252962-41-7, 37230-92-5, 37230-94-7, 37230-95-8, 37230-96-9, 39320-58-6, 39360-64-0, 39379-02-7, 416845-43-7, 494848-07-6, 494848-23-6, 494851-77-3, 494851-98-8, 55068-84-3, |

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55068-85-4, 552316-51-5, 62338-64-1, 767341-00-4, 97929-50-5, 98084-96-9

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

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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