

# Ardex (Ardex Australia)

Chemwatch: 85-5520 Version No: 8.1.17.10

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Issue Date: 07/03/2020 Print Date: 16/09/2021 S.GHS.AUS.EN

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

### **Product Identifier**

| Product name                  | Ardex RA 84 Part B |
|-------------------------------|--------------------|
| Chemical Name                 | Not Applicable     |
| Synonyms                      | Not Available      |
| Chemical formula              | Not Applicable     |
| Other means of identification | Not Available      |

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

| Registered company name | Ardex (Ardex Australia)                       |
|-------------------------|---|
| Address                 | 20 Powers Road Seven Hills NSW 2147 Australia |
| Telephone               | 1800 224 070                                  |
| Fax                     | 1300 780 102                                  |
| Website                 | www.ardexaustralia.com                        |
| Email                   | technicalservices@ardexaustralia.com          |

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|---------------------------------------|---------------------------------|
| Emergency telephone<br>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 | 1   | 1   |                         |
| Toxicity     | 0   |     | 0 = Minimum             |
| Body Contact | 3   | 1   | 1 = Low                 |
| Reactivity   | 1 📕 |     | 2 = Moderate            |
| Chronic      | 2   | 1   | 3 = High<br>4 = Extreme |

| Poisons Schedule              | S5  |
|-------------------------------|---|
| Classification <sup>[1]</sup> | Sensitisation (Skin) Category 1, Specific Target Organ Toxicity - Repeated Exposure Category 2, Serious Eye Damage/Eye Irritation Category 2A |
| Legend:                       | 1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI          |

Label elements

| Hazard pictogram(s) |  |
|---------------------|--|
|                     |  |

Signal word Warning

# Hazard statement(s)

| H317 | May cause an allergic skin reaction.                               |
|------|--|
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H319 | Causes serious eye irritation.                                     |

# Precautionary statement(s) Prevention

| P260 | Do not breathe mist/vapours/spray.   |
|------|--|
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. |
| P264 | Wash all exposed external body areas thoroughly after handling.                  |
| P272 | Contaminated work clothing should not be allowed out of the workplace.           |

#### Precautionary statement(s) Response

| P302+P352      | IF ON SKIN: Wash with plenty of water and soap.  |  |
|----------------|--|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |  |
| P314           | Get medical advice/attention if you feel unwell.   |  |
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.   |  |

# Precautionary statement(s) Storage

Not Applicable

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               |
|---------------|--|--------------------|
| 94-36-0       | 10-25  | dibenzoyl peroxide |
| 107-21-1      | 5-10   | ethylene glycol    |
| Not Available | >60 Ingredients determined not to be hazardous   |                    |
| Legend:       | I: Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4.<br>Classification drawn from C&L * EU IOELVs available |                    |

# **SECTION 4 First aid measures**

# Description of first aid measures

| Eye Contact  | <ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>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.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>                               |
|--------------|---|
| Skin Contact | <ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>   |
| 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.</li> </ul>             |
| Ingestion    | <ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul> |

Treat symptomatically.

# **SECTION 5 Firefighting measures**

# Extinguishing media

- Alcohol stable foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

#### 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           | <ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>   |  |  |
| Fire/Explosion Hazard   | <ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>metal oxides</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul> |  |  |
| HAZCHEM                 | Not Applicable   |  |  |

# **SECTION 6** Accidental release measures

# Personal precautions, protective equipment and emergency procedures

See section 8

#### Environmental precautions

See section 12

#### Methods and material for containment and cleaning up

| Minor Spills | <ul> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Wear impervious gloves and safety goggles.</li> <li>Trowel up/scrape up.</li> </ul>  |
|--------------|--|
| Major Spills | <ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> </ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

| Safe handling     | <ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul> |
|-------------------|--|
| Other information | <ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Store in a cool, dry, well-ventilated area.</li> </ul>                            |

# Conditions for safe storage, including any incompatibilities

| Suitable container      | <ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>  |
|-------------------------|---|
| Storage incompatibility | <ul> <li>Avoid storage with reducing agents.</li> <li>Avoid cross contamination between the two liquid parts of product (kit).</li> <li>If two part products are mixed or allowed to mix in proportions other than manufacturer's recommendation, polymerisation with gelation and evolution of heat (exotherm) may occur.</li> <li>This excess heat may generate toxic vapour</li> <li>Avoid strong acids, bases.</li> </ul> |

# **SECTION 8 Exposure controls / personal protection**

#### **Control parameters**

#### Occupational Exposure Limits (OEL)

| INGREDIENT DATA              |                    |                               |                   |                    |               |               |
|------------------------------|--------------------|-------------------------------|-------------------|--------------------|---------------|---------------|
| Source                       | Ingredient         | Material name                 | TWA               | STEL               | Peak          | Notes         |
| Australia Exposure Standards | dibenzoyl peroxide | Benzoyl peroxide              | 5 mg/m3           | Not Available      | Not Available | Not Available |
| Australia Exposure Standards | ethylene glycol    | Ethylene glycol (particulate) | 10 mg/m3          | Not Available      | Not Available | Not Available |
| Australia Exposure Standards | ethylene glycol    | Ethylene glycol (vapour)      | 20 ppm / 52 mg/m3 | 104 mg/m3 / 40 ppm | Not Available | Not Available |

# Emergency Limits

| Ingredient         | TEEL-1        | TEEL-2      |               | TEEL-3      |
|--------------------|---------------|-------------|---------------|-------------|
| dibenzoyl peroxide | 15 mg/m3      | 1,200 mg/m3 |               | 7,000 mg/m3 |
| ethylene glycol    | 30 ppm        | 150 ppm     |               | 900 ppm     |
| Ingredient         | Original IDLH |             | Revised IDLH  |             |
| dibenzoyl peroxide | 1,500 mg/m3   |             | Not Available |             |
| ethylene glycol    | Not Available |             | Not Available |             |

#### Exposure controls

| Appropriate engineering<br>controls | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can<br>be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.<br>The basic types of engineering controls are:<br>Process controls which involve changing the way a job activity or process is done to reduce the risk.<br>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically<br>"adds" and "removes" air in the work environment. |
|-------------------------------------|---|
| Personal protection                 |   |
| Eye and face protection             | <ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>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.</li> </ul>   |
| Skin protection                     | See Hand protection below   |
| Hands/feet protection               | <ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE:</li> <li>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.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> </ul>  |
| Body protection                     | See Other protection below  |
| Other protection                    | <ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> </ul>  |

#### Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index". The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Ardex RA 84 Part B

| Material         | CPI |
|------------------|-----|
| NATURAL RUBBER   | A   |
| NATURAL+NEOPRENE | A   |
| NEOPRENE         | А   |
| NEOPRENE/NATURAL | A   |
| NITRILE          | А   |
| NITRILE+PVC      | А   |
| PE/EVAL/PE       | А   |
| PVC              | A   |
| TEFLON           | А   |
| PVA              | В   |

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final

#### Respiratory protection

Type A-P 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<br>Protection Factor | Half-Face<br>Respirator | Full-Face<br>Respirator | Powered Air<br>Respirator  |
|---------------------------------------|-------------------------|-------------------------|----------------------------|
| up to 10 x ES                         | A-AUS P2                | -                       | A-PAPR-AUS /<br>Class 1 P2 |
| up to 50 x ES                         | -                       | A-AUS / Class 1<br>P2   | -                          |
| up to 100 x ES                        | -                       | A-2 P2                  | A-PAPR-2 P2 ^              |

#### ^ - 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)

 Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.

The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is

selection must be based on detailed observation. -

**SECTION 9** Physical and chemical properties

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted. not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

#### Information on basic physical and chemical properties Appearance Gray paste with characteristic odour; does not mix with water. Physical state Non Slump Paste Relative density (Water = 1) 1.45 Partition coefficient n-octanol Not Available Odour Not Available / water Odour threshold Not Available Auto-ignition temperature (°C) Not Available Not Applicable Decomposition temperature pH (as supplied) 50 Melting point / freezing point Not Available Viscosity (cSt) Not Available (°C) Initial boiling point and boiling Not Available Not Applicable Molecular weight (g/mol) range (°C) Flash point (°C) Not Available Not Available Taste Evaporation rate Explosive properties Not Available Not Available Flammability Not Available **Oxidising properties** Not Available Surface Tension (dyn/cm or Upper Explosive Limit (%) Not Available Not Available mN/m) Lower Explosive Limit (%) Volatile Component (%vol) Not Available Not Available Vapour pressure (kPa) Not Available Not Available Gas group Solubility in water pH as a solution (%) Immiscible Not Applicable Vapour density (Air = 1) Not Available VOC g/L Not Available

### **SECTION 10 Stability and reactivity**

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

## **SECTION 11 Toxicological information**

#### Information on toxicological effects

| Inhaled            | Inhalation of vapours may cause drowsiness and dizziness. This may be<br>co-ordination, and vertigo.<br>51r37?i  | accompanied by sleepiness, reduced alertness, loss of reflexes, lack of   |  |  |  |  |  |  |
|--------------------|--|---|--|--|--|--|--|--|
| Ingestion          | The material has <b>NOT</b> been classified by EC Directives or other classifica<br>corroborating animal or human evidence.  | The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of<br>corroborating animal or human evidence. |  |  |  |  |  |  |
| Skin Contact       | Open cuts, abraded or irritated skin should not be exposed to this materia<br>Entry into the blood-stream, through, for example, cuts, abrasions or lesis<br>prior to the use of the material and ensure that any external damage is so<br>There is some evidence to suggest that the material may cause mild but  | peated exposure may cause skin cracking, flaking or drying following normal handling and use.   |  |  |  |  |  |  |
| Eye                | Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals. Prolonged eye contact may cause inflammation characterised by a temporary redness of the conjunctiva (similar to windburn).  |   |  |  |  |  |  |  |
| Chronic            | contact may cause inflammation characterised by a temporary redness of the conjunctiva (similar to windburn).<br>Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.<br>There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.<br>Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.<br>There is some evidence from animal testing that exposure to this material may result in reduced fertility.<br>There is some evidence from animal testing that exposure to this material may result in toxic effects to the unborn baby.<br>Exposure to the material for prolonged periods may cause physical defects in the developing embryo (teratogenesis). |   |  |  |  |  |  |  |
| Ardex RA 84 Part B | ΤΟΧΙΟΙΤΥ   | IRRITATION  |  |  |  |  |  |  |
|                    | Oral (None) LD50: 10000 mg/kg* <sup>[2]</sup>  | Not Available   |  |  |  |  |  |  |

|  | TOXICITY   | IRRITATION  |  |  |  |
|--|--|---|--|--|--|
| dibenzoyl peroxide   | dermal (mammal) LD50: >1000 mg/kg <sup>[2]</sup>   | Eye (rabbit): 500   | 0 mg/24h - mild  |  |  |
|  | Oral(Rat) LD50; >950 mg/kg <sup>[1]</sup>  | Skin effects (MA  | \K): very weak   |  |  |
|  | τοχιςιτγ   | IRRITATION  |  |  |  |
|  | dermal (mouse) LD50: >3500 mg/kg <sup>[1]</sup>  | Eye (rabbit): 100   | 0 mg/1h - mild   |  |  |
|  | Oral(Rat) LD50; >2000 mg/kg <sup>[2]</sup>   | Eye (rabbit): 12  | mg/m3/3D   |  |  |
| othylono glygol  |  | Eye (rabbit): 144   | 40mg/6h-moderate   |  |  |
| ethylene glycol  |  | Eye (rabbit): 500   | 0 mg/24h - mild  |  |  |
|  |  | Eye: no adverse   | e effect observed (not irritating) <sup>[1]</sup>  |  |  |
|  |  | Skin (rabbit): 55   | 5 mg(open)-mild  |  |  |
|  |  | Skin: no adverse  | e effect observed (not irritating) <sup>[1]</sup>  |  |  |
| Legend:  | <ol> <li>Value obtained from Europe ECHA Registered Substa<br/>specified data extracted from RTECS - Register of Toxic</li> </ol>  | •   | ained from manufacturer's SDS. Unless otherwise  |  |  |
|  | The following information refers to contact allergens as a<br>Contact allergies quickly manifest themselves as contact<br>eczema involves a cell-mediated (T lymphocytes) immun<br>involve antibody-mediated immune reactions. The signific<br>distribution of the substance and the opportunities for cor   | eczema, more rarely as urticaria of<br>e reaction of the delayed type. Oth<br>cance of the contact allergen is no<br>ttact with it are equally important.   | or Quincke's oedema. The pathogenesis of contact<br>ner allergic skin reactions, e.g. contact urticaria,<br>t simply determined by its sensitisation potential: the  |  |  |
| DIBENZOYL PEROXIDE   | Contact allergies quickly manifest themselves as contact<br>eczema involves a cell-mediated (T lymphocytes) immun-<br>involve antibody-mediated immune reactions. The signific   | eczema, more rarely as urticaria of<br>e reaction of the delayed type. Oth<br>cance of the contact allergen is no<br>itact with it are equally important.<br>contact causing inflammation. Rep<br>repeated exposure and may produ-<br>oblems, excess saliva and tear forr<br>iffects, gene mutation or evidence   | or Quincke's oedema. The pathogenesis of contact<br>her allergic skin reactions, e.g. contact urticaria,<br>t simply determined by its sensitisation potential: the<br>heated or prolonged exposure to irritants may produc-<br>lice on contact skin redness, swelling, the production<br>mation, redness of the skin and changes in motor   |  |  |
| DIBENZOYL PEROXIDE   | Contact allergies quickly manifest themselves as contact<br>eczema involves a cell-mediated (T lymphocytes) immun<br>involve antibody-mediated immune reactions. The signific<br>distribution of the substance and the opportunities for cor<br>The material may be irritating to the eye, with prolonged or<br>conjunctivitis.<br>The material may cause skin irritation after prolonged or<br>vesicles, scaling and thickening of the skin.<br>Benzoyl peroxide may cause double vision, breathing pro<br>activity. It did not produce blood or biochemical adverse e<br>decreased weights of testes and the newborn.<br>The substance is classified by IARC as Group 3:<br><b>NOT</b> classifiable as to its carcinogenicity to humans.   | eczema, more rarely as urticaria of<br>e reaction of the delayed type. Oth<br>ance of the contact allergen is no<br>tract with it are equally important.<br>contact causing inflammation. Rep<br>repeated exposure and may produ-<br>blems, excess saliva and tear form<br>iffects, gene mutation or evidence<br>in animal testing.<br>by Orica] Substance is reproductive<br>ghout the gastrointestinal tract. Ling<br>y slow. Following absorption, it is of  | or Quincke's oedema. The pathogenesis of contact<br>her allergic skin reactions, e.g. contact urticaria,<br>t simply determined by its sensitisation potential: the<br>reated or prolonged exposure to irritants may produce<br>the on contact skin redness, swelling, the production<br>mation, redness of the skin and changes in motor<br>of cancer. Repeated oral administration may result in<br>ve effector in rats (birth defects). Mutagenic to rat cell<br>mited information suggests that it is also absorbed<br>distributed throughout the body. In humans, it is initial                                 |  |  |
|  | Contact allergies quickly manifest themselves as contact<br>eczema involves a cell-mediated (T lymphocytes) immuni<br>involve antibody-mediated immune reactions. The signific<br>distribution of the substance and the opportunities for cor<br>The material may be irritating to the eye, with prolonged or<br>conjunctivitis.<br>The material may cause skin irritation after prolonged or<br>vesicles, scaling and thickening of the skin.<br>Benzoyl peroxide may cause double vision, breathing pro<br>activity. It did not produce blood or biochemical adverse e<br>decreased weights of testes and the newborn.<br>The substance is classified by IARC as Group 3:<br><b>NOT</b> classifiable as to its carcinogenicity to humans.<br>Evidence of carcinogenicity may be inadequate or limited<br>[Estimated Lethal Dose (human) 100 ml; RTECS quoted<br>For ethylene glycol:<br>Ethylene glycol is quickly and extensively absorbed throu<br>through the airways; absorption through skin is apparent  | eczema, more rarely as urticaria of<br>e reaction of the delayed type. Oth<br>ance of the contact allergen is no<br>tract with it are equally important.<br>contact causing inflammation. Rep<br>repeated exposure and may produ-<br>blems, excess saliva and tear form<br>iffects, gene mutation or evidence<br>in animal testing.<br>by Orica] Substance is reproductive<br>ghout the gastrointestinal tract. Ling<br>y slow. Following absorption, it is of  | or Quincke's oedema. The pathogenesis of contact<br>her allergic skin reactions, e.g. contact urticaria,<br>t simply determined by its sensitisation potential: the<br>reated or prolonged exposure to irritants may produc-<br>lice on contact skin redness, swelling, the production<br>mation, redness of the skin and changes in motor<br>of cancer. Repeated oral administration may result in<br>ve effector in rats (birth defects). Mutagenic to rat cel<br>mited information suggests that it is also absorbed<br>distributed throughout the body. In humans, it is initia                                  |  |  |
| ETHYLENE GLYCOL  | Contact allergies quickly manifest themselves as contact<br>eczema involves a cell-mediated (T lymphocytes) immun<br>involve antibody-mediated immune reactions. The signific<br>distribution of the substance and the opportunities for cor<br>The material may be irritating to the eye, with prolonged or<br>conjunctivitis.<br>The material may cause skin irritation after prolonged or<br>vesicles, scaling and thickening of the skin.<br>Benzoyl peroxide may cause double vision, breathing pro<br>activity. It did not produce blood or biochemical adverse<br>decreased weights of testes and the newborn.<br>The substance is classified by IARC as Group 3:<br><b>NOT</b> classifiable as to its carcinogenicity to humans.<br>Evidence of carcinogenicity may be inadequate or limited<br>[Estimated Lethal Dose (human) 100 ml; RTECS quoted<br>For ethylene glycol:<br>Ethylene glycol is quickly and extensively absorbed throug<br>through the airways; absorption through skin is apparently<br>metabolized by alcohol dehydrogenase to form glycoalde  | eczema, more rarely as urticaria of<br>e reaction of the delayed type. Oth<br>cance of the contact allergen is no<br>tact with it are equally important.<br>contact causing inflammation. Rep<br>repeated exposure and may produ-<br>blems, excess saliva and tear form<br>ffects, gene mutation or evidence<br>in animal testing.<br>by Orica] Substance is reproductive<br>ghout the gastrointestinal tract. Lin<br>y slow. Following absorption, it is of<br>hyde, which is rapidly converted to   | or Quincke's oedema. The pathogenesis of contact<br>ner allergic skin reactions, e.g. contact urticaria,<br>t simply determined by its sensitisation potential: the<br>neated or prolonged exposure to irritants may produce<br>use on contact skin redness, swelling, the production<br>mation, redness of the skin and changes in motor<br>of cancer. Repeated oral administration may result in<br>we effector in rats (birth defects). Mutagenic to rat cell<br>mited information suggests that it is also absorbed<br>distributed throughout the body. In humans, it is initial<br>o glycolic acid and glyoxal. |  |  |
| ETHYLENE GLYCOL<br>Acute Toxicity                              | Contact allergies quickly manifest themselves as contact<br>eczema involves a cell-mediated (T lymphocytes) immuni<br>involve antibody-mediated immune reactions. The signific<br>distribution of the substance and the opportunities for cor<br>The material may be irritating to the eye, with prolonged or<br>conjunctivitis.<br>The material may cause skin irritation after prolonged or<br>vesicles, scaling and thickening of the skin.<br>Benzoyl peroxide may cause double vision, breathing pro<br>activity. It did not produce blood or biochemical adverse e<br>decreased weights of testes and the newborn.<br>The substance is classified by IARC as Group 3:<br><b>NOT</b> classifiable as to its carcinogenicity to humans.<br>Evidence of carcinogenicity may be inadequate or limited<br>[Estimated Lethal Dose (human) 100 ml; RTECS quoted<br>For ethylene glycol:<br>Ethylene glycol is quickly and extensively absorbed throu<br>through the airways; absorption through skin is apparent<br>metabolized by alcohol dehydrogenase to form glycoalde  | eczema, more rarely as urticaria of<br>e reaction of the delayed type. Oth<br>cance of the contact allergen is no<br>intact with it are equally important.<br>contact causing inflammation. Rep<br>repeated exposure and may produ-<br>blems, excess saliva and tear form<br>iffects, gene mutation or evidence<br>in animal testing.<br>by Orica] Substance is reproductive<br>ghout the gastrointestinal tract. Lin<br>y slow. Following absorption, it is of<br>hyde, which is rapidly converted to<br>Carcinogenicity                   | or Quincke's oedema. The pathogenesis of contact<br>ner allergic skin reactions, e.g. contact urticaria,<br>t simply determined by its sensitisation potential: the<br>neated or prolonged exposure to irritants may produce<br>use on contact skin redness, swelling, the production<br>mation, redness of the skin and changes in motor<br>of cancer. Repeated oral administration may result in<br>we effector in rats (birth defects). Mutagenic to rat cell<br>mited information suggests that it is also absorbed<br>distributed throughout the body. In humans, it is initia<br>o glycolic acid and glyoxal.  |  |  |
| ETHYLENE GLYCOL<br>Acute Toxicity<br>Skin Irritation/Corrosion | Contact allergies quickly manifest themselves as contact<br>eczema involves a cell-mediated (T lymphocytes) immuni<br>involve antibody-mediated immune reactions. The signific<br>distribution of the substance and the opportunities for cor<br>The material may be irritating to the eye, with prolonged or<br>conjunctivitis.<br>The material may cause skin irritation after prolonged or<br>vesicles, scaling and thickening of the skin.<br>Benzoyl peroxide may cause double vision, breathing pro<br>activity. It did not produce blood or biochemical adverse e<br>decreased weights of testes and the newborn.<br>The substance is classified by IARC as Group 3:<br><b>NOT</b> classifiable as to its carcinogenicity to humans.<br>Evidence of carcinogenicity may be inadequate or limited<br>[Estimated Lethal Dose (human) 100 ml; RTECS quoted<br>For ethylene glycol:<br>Ethylene glycol is quickly and extensively absorbed throw<br>through the airways; absorption through skin is apparent!<br>metabolized by alcohol dehydrogenase to form glycoalde | eczema, more rarely as urticaria of<br>e reaction of the delayed type. Oth<br>cance of the contact allergen is no<br>itact with it are equally important.<br>contact causing inflammation. Rep<br>repeated exposure and may produ-<br>oblems, excess saliva and tear form<br>iffects, gene mutation or evidence<br>in animal testing.<br>by Orica] Substance is reproduction<br>ghout the gastrointestinal tract. Lii<br>y slow. Following absorption, it is of<br>hyde, which is rapidly converted to<br>Carcinogenicity<br>Reproductivity | or Quincke's oedema. The pathogenesis of contact<br>her allergic skin reactions, e.g. contact urticaria,<br>t simply determined by its sensitisation potential: the<br>reated or prolonged exposure to irritants may produce<br>use on contact skin redness, swelling, the production<br>mation, redness of the skin and changes in motor<br>of cancer. Repeated oral administration may result in<br>we effector in rats (birth defects). Mutagenic to rat cell<br>mited information suggests that it is also absorbed<br>distributed throughout the body. In humans, it is initial<br>o glycolic acid and glyoxal. |  |  |

# **SECTION 12 Ecological information**

# Toxicity

|                    | Endpoint         | Test Duration (hr)  | Spec    | cies                       |               | Value            | Source           |
|--------------------|------------------|---|---------|----------------------------|---------------|------------------|------------------|
| Ardex RA 84 Part B | Not<br>Available | Not Available   | Not A   | Available                  |               | Not<br>Available | Not<br>Available |
|                    | Endpoint         | Test Duration (hr)  | Spe     | Species                    |               | Value            | Source           |
|                    | EC10(ECx)        | 504h  | Cru     | stacea                     |               | 0.001mg/l        | 2                |
| dibenzoyl peroxide | EC50             | 72h   | Alga    | ae or other aquatic plants |               | 0.042mg/l        | 2                |
|                    | LC50             | 96h   | Fish    | 1                          |               | 0.06mg/l         | 2                |
|                    | EC50             | 48h   | Cru     | stacea                     |               | 0.11mg/l         | 2                |
|                    | Endpoint         | Test Duration (hr)  | Specie  | S                          | Val           | ue               | Source           |
|                    | EC50             | 48h   | Crustad | stacea >100mg/l            |               | 0mg/l            | 2                |
| ethylene glycol    | LC50             | 96h   | Fish    | Fish >10000                |               | 1000mg/l         | 1                |
|                    | EC50(ECx)        | Not Available   | Algae o | or other aquatic plants    | 6500-7500mg/l |                  | 1                |
|                    | EC50             | 96h   | Algae o | or other aquatic plants    | 650           | 0-13000mg/l      | 1                |
| Legend:            | V3.12 (QSAR)     | acted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN S<br>12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessme<br>a 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             |
|--------------------|---------------------------|------------------------------|
| dibenzoyl peroxide | LOW (Half-life = 14 days) | LOW (Half-life = 21.25 days) |
| ethylene glycol    | LOW (Half-life = 24 days) | LOW (Half-life = 3.46 days)  |

#### Bioaccumulative potential

| Ingredient         | Bioaccumulation     |  |
|--------------------|---------------------|--|
| dibenzoyl peroxide | LOW (LogKOW = 3.46) |  |
| ethylene glycol    | LOW (BCF = 200)     |  |

# Mobility in soil

| Ingredient         | Mobility        |
|--------------------|-----------------|
| dibenzoyl peroxide | LOW (KOC = 771) |
| ethylene glycol    | HIGH (KOC = 1)  |

#### **SECTION 13 Disposal considerations**

| Waste treatment methods      |  |  |
|------------------------------|--|--|
| Product / Packaging disposal | <ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> <li>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.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> |  |

#### **SECTION 14 Transport information**

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

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

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

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

# Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name       | Group         |
|--------------------|---------------|
| dibenzoyl peroxide | Not Available |
| ethylene glycol    | Not Available |

## Transport in bulk in accordance with the ICG Code

| Product name       | Ship Type     |
|--------------------|---------------|
| dibenzoyl peroxide | Not Available |
| ethylene glycol    | Not Available |

# **SECTION 15 Regulatory information**

# Safety, health and environmental regulations / legislation specific for the substance or mixture

## dibenzoyl peroxide is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 2 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -

Australia Stanuard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 4 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  $\,$ 

Australian Inventory of Industrial Chemicals (AIIC)

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

ethylene glycol is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

#### **National Inventory Status**

| National Inventory                                 | Status  |
|--|---|
| Australia - AIIC / Australia<br>Non-Industrial Use | Yes   |
| Canada - DSL                                       | Yes   |
| Canada - NDSL                                      | No (dibenzoyl peroxide; ethylene glycol)  |
| China - IECSC                                      | Yes   |
| Europe - EINEC / ELINCS / NLP                      | Yes   |
| Japan - ENCS                                       | Yes   |
| Korea - KECI                                       | Yes   |
| New Zealand - NZIoC                                | Yes   |
| Philippines - PICCS                                | Yes   |
| USA - TSCA   | Yes   |
| Taiwan - TCSI                                      | Yes   |
| Mexico - INSQ                                      | Yes   |
| Vietnam - NCI                                      | Yes   |
| Russia - FBEPH                                     | Yes   |
| Legend:  | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |

#### **SECTION 16 Other information**

| Revision Date | 07/03/2020 |
|---------------|------------|
| Initial Date  | 19/09/2017 |

#### **SDS Version Summary**

| Version   | Date of Update | Sections Updated   |
|-----------|----------------|--|
| 7.1.1.1   | 01/11/2019     | One-off system update. NOTE: This may or may not change the GHS classification |
| 8.1.1.1   | 07/03/2020     | Classification change due to full database hazard calculation/update.          |
| 8.1.2.1   | 26/04/2021     | Regulation Change  |
| 8.1.3.1   | 03/05/2021     | Regulation Change  |
| 8.1.4.1   | 06/05/2021     | Regulation Change  |
| 8.1.5.1   | 10/05/2021     | Regulation Change  |
| 8.1.5.2   | 30/05/2021     | Template Change  |
| 8.1.5.3   | 04/06/2021     | Template Change  |
| 8.1.5.4   | 05/06/2021     | Template Change  |
| 8.1.6.4   | 07/06/2021     | Regulation Change  |
| 8.1.6.5   | 09/06/2021     | Template Change  |
| 8.1.6.6   | 11/06/2021     | Template Change  |
| 8.1.6.7   | 15/06/2021     | Template Change  |
| 8.1.7.7   | 17/06/2021     | Regulation Change  |
| 8.1.8.7   | 21/06/2021     | Regulation Change  |
| 8.1.8.8   | 05/07/2021     | Template Change  |
| 8.1.9.8   | 14/07/2021     | Regulation Change  |
| 8.1.10.8  | 19/07/2021     | Regulation Change  |
| 8.1.10.9  | 01/08/2021     | Template Change  |
| 8.1.11.9  | 02/08/2021     | Regulation Change  |
| 8.1.12.9  | 05/08/2021     | Regulation Change  |
| 8.1.13.9  | 09/08/2021     | Regulation Change  |
| 8.1.14.9  | 23/08/2021     | Regulation Change  |
| 8.1.15.9  | 26/08/2021     | Regulation Change  |
| 8.1.15.10 | 29/08/2021     | Template Change  |
| 8.1.16.10 | 30/08/2021     | Regulation Change  |
| 8.1.17.10 | 06/09/2021     | Regulation Change  |

#### 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 ES: Exposure Standard 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 AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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