

# **Dunlop Wet Area Waterproofing Ardex (Ardex Australia)**

Chemwatch Hazard Alert Code: 2

Issue Date: **15/04/2021**Print Date: **22/07/2021**S.GHS.AUS.EN

Chemwatch: 5391-22 Version No: 6.1.10.8 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

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

| Product Identifier            |                               |
|-------------------------------|-------------------------------|
| Product name                  | Dunlop Wet Area Waterproofing |
| 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

Relevant identified uses Undertile waterproofing membrane for residential and commercial wet area.

#### 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                 | www.ardexaustralia.com                        |
| Email                   | technicalservices@ardexaustralia.com          |

# 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     | 1   |     | 0 = Minimum             |
| Body Contact | 1   | 1   | 1 = Low                 |
| Reactivity   | 1   |     | 2 = Moderate            |
| Chronic      | 2   |     | 3 = High<br>4 = Extreme |

| Poisons Schedule   | Not Applicable  |
|--------------------|---|
| Classification [1] | Specific target organ toxicity - repeated exposure Category 2, Skin Sensitizer Category 1   |
| Legend:            | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |

# Label elements

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# Hazard pictogram(s)





| <u> </u>    |    |
|-------------|----|
| Signal word | Wa |

# Hazard statement(s)

| H373 | May cause damage to organs through prolonged or repeated exposure. |
|------|--|
| H317 | May cause an allergic skin reaction.                               |

# Precautionary statement(s) Prevention

| P260 | Do not breathe mist/vapours/spray.                                     |
|------|--|
| P280 | Wear protective gloves and protective clothing.                        |
| 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.                           |
| P314                                    | Get medical advice/attention if you feel unwell.                 |
| P333+P313                               | If skin irritation or rash occurs: Get medical advice/attention. |
| P362+P364                               | Take off contaminated clothing and wash it before reuse.         |

# 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   |
|---------------|---|--|
| 7727-43-7     | 10-30   | barium sulfate   |
| 14808-60-7    | 10-30   | silica crystalline - quartz  |
| 1332-58-7     | 1-10  | <u>ball clay</u>   |
| 13463-67-7    | 1-10  | C.I. Pigment White 6   |
| 2682-20-4     | <1  | 2-methyl-4-isothiazolin-3-one  |
| Not Available | balance   | Ingredients determined not to be hazardous   |
| Legend:       | Classified by Chemwatch; 2. C     Classification drawn from C&L * I | lassification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4.<br>EU IOELVs available |

# **SECTION 4 First aid measures**

# D

Ingestion

| Description of first aid measures |  |  |  |
|-----------------------------------|--|--|--|
| Eye Contact                       | If this product comes in contact with the eyes:  Immediately hold eyelids apart and flush the eye continuously with running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |  |  |
| Skin Contact                      | If skin or hair contact occurs:  Immediately flush body and clothes with large amounts of water, using safety shower if available.  Quickly remove all contaminated clothing, including footwear.  Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.  Transport to hospital, or doctor.   |  |  |
| Inhalation                        | <ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>                         |  |  |
|                                   | ► IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.  |  |  |

In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated

▶ For advice, contact a Poisons Information Centre or a doctor.

Urgent hospital treatment is likely to be needed.

by the patient's condition.

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- If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.
- If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.

Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:

• INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

**NOTE:** Wear a protective glove when inducing vomiting by mechanical means.

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

Treat symptomatically.

# **SECTION 5 Firefighting measures**

#### **Extinguishing media**

- ▶ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

# Special hazards arising from the substrate or mixture

| Fire Incompatibility    | Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result  |  |  |
|-------------------------|---|--|--|
| Advice for firefighters |   |  |  |
| Fire Fighting           | <ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>   |  |  |
| Fire/Explosion Hazard   | <ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>Decomposes on heating and produces:         <ul> <li>carbon dioxide (CO2)</li> <li>sulfur oxides (SOx)</li> <li>metal oxides</li> <li>other pyrolysis products typical of burning organic material.</li> <li>Decomposes at high temperatures to produce barium oxide. Barium oxide is strongly alkaline and, upon contact with water, is exothermic. When barium oxide reacts with oxygen to give a peroxide, there is a fire and explosion risk.</li> </ul> </li> <li>May emit poisonous furmes.</li> </ul> |  |  |

# **SECTION 6 Accidental release measures**

HAZCHEM

# Personal precautions, protective equipment and emergency procedures

Not Applicable

May emit corrosive fumes.

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 breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</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 full body protective clothing with breathing apparatus.</li> <li>Prevent, by all means available, spillage from entering drains or water courses.</li> </ul> |  |  |  |

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

# **SECTION 7 Handling and storage**

| Precautions for safe handling |  |
|-------------------------------|--|
| Safe handling                 | <ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul> |
| Other information             | <ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>   |

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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

#### 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 | barium sulfate                 | Barium sulphate                                | 10<br>mg/m3   | Not<br>Available | Not<br>Available | (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. |
| Australia Exposure Standards | silica crystalline -<br>quartz | Silica - Crystalline: Quartz (respirable dust) | 0.05<br>mg/m3 | Not<br>Available | Not<br>Available | Not Available  |
| Australia Exposure Standards | ball clay                      | Kaolin   | 10<br>mg/m3   | Not<br>Available | Not<br>Available | (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. |
| Australia Exposure Standards | C.I. Pigment<br>White 6        | Titanium dioxide                               | 10<br>mg/m3   | Not<br>Available | Not<br>Available | (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. |

#### **Emergency Limits**

| Ingredient                  | TEEL-1      | TEEL-2    | TEEL-3      |
|-----------------------------|-------------|-----------|-------------|
| barium sulfate              | 15 mg/m3    | 170 mg/m3 | 990 mg/m3   |
| silica crystalline - quartz | 0.075 mg/m3 | 33 mg/m3  | 200 mg/m3   |
| C.I. Pigment White 6        | 30 mg/m3    | 330 mg/m3 | 2,000 mg/m3 |

| Ingredient                    | Original IDLH       | Revised IDLH  |
|-------------------------------|---------------------|---------------|
| barium sulfate                | Not Available       | Not Available |
| silica crystalline - quartz   | 25 mg/m3 / 50 mg/m3 | Not Available |
| ball clay                     | Not Available       | Not Available |
| C.I. Pigment White 6          | 5,000 mg/m3         | Not Available |
| 2-methyl-4-isothiazolin-3-one | Not Available       | Not Available |

#### Occupational Exposure Banding

| Ingredient                    | Occupational Exposure Band Rating  | Occupational Exposure Band Limit |  |
|-------------------------------|--|----------------------------------|--|
| 2-methyl-4-isothiazolin-3-one | D  | > 0.01 to ≤ 0.1 mg/m³            |  |
| Notes:                        | Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health. |                                  |  |

# 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 unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure.
- ▶ Chemical goggles whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted.
- Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection.
- Alternatively a gas mask may replace splash goggles and face shields.

# Skin protection

# See Hand protection below

► Elbow length PVC gloves

# 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

- Figure 2. Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent]
- Figure 1 Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type

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respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent]

- Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.
- Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood.
- Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.
- Overalls.
- P.V.C apron.
- Barrier cream.
- Skin cleansing cream

#### 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:

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| Material       | СРІ |
|----------------|-----|
| BUTYL          | A   |
| NEOPRENE       | А   |
| VITON          | A   |
| NATURAL RUBBER | С   |
| PVA            | С   |

<sup>\*</sup> 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 selection must be based on detailed observation. -

#### 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<br>Protection Factor | Half-Face<br>Respirator | Full-Face<br>Respirator | Powered Air<br>Respirator |
|---------------------------------------|-------------------------|-------------------------|---------------------------|
| up to 10 x ES                         | A-AUS                   | -                       | A-PAPR-AUS /<br>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)

- 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 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

#### **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

| Appearance                                   | Bluish grey liquid; partly mixes with 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 Applicable |
| pH (as supplied)                             | Not Available                                | Decomposition temperature               | Not Available  |
| Melting point / freezing point (°C)          | Not Applicable                               | Viscosity (cSt)                         | Not Available  |
| Initial boiling point and boiling range (°C) | Not Available                                | Molecular weight (g/mol)                | Not Applicable |
| Flash point (°C)                             | Not Applicable                               | Taste                                   | Not Available  |
| Evaporation rate                             | Not Available                                | Explosive properties                    | Not Available  |
| Flammability                                 | Not Applicable                               | Oxidising properties                    | Not Available  |
| Upper Explosive Limit (%)                    | Not Applicable                               | Surface Tension (dyn/cm or mN/m)        | Not Available  |
| Lower Explosive Limit (%)                    | Not Applicable                               | Volatile Component (%vol)               | Not Available  |
| Vapour pressure (kPa)                        | Not Available                                | Gas group                               | Not Available  |
| Solubility in water                          | Partly miscible                              | pH as a solution (%)                    | Not Available  |
| Vapour density (Air = 1)                     | Not Available                                | VOC g/L                                 | Not Available  |

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

<sup>\*</sup> 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.

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

# **SECTION 11 Toxicological information**

| Information | on | toxicological effects |  |
|-------------|----|-----------------------|--|
|-------------|----|-----------------------|--|

| Information on toxicological ef | fects  |   |  |
|---------------------------------|--|---|--|
| Inhaled                         | There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.  |   |  |
| Ingestion                       | The material has <b>NOT</b> been classified by EC Directives or other classificatorroborating animal or human evidence.  | ation systems as "harmful by ingestion". This is because of the lack of   |  |
| 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 cause eye irrita  | tion and damage in some persons.  |  |
| Chronic                         | Skin contact with the material is more likely to cause a sensitisation react Danger of serious damage to health by prolonged exposure. Harmful: danger of serious damage to health by prolonged exposure through the thickness of serious damage to health by prolonged exposure through the thickness of serious damage to health by prolonged exposure through the thickness of serious cause cancer or mu Chronic dust inhalation of kaolin, can cause kaolinosis from kaolin depossacs, and chronic lung diseases (nodular pneumoconiosis). This condition pre-existing chest infection. Pre-employment screening is recommended Barium compounds may cause high blood pressure, airway irritation and cause a lung inflammation and scarring. | ough inhalation. Itations but there is not enough data to make an assessment. Itition in the lungs causing distinct lung markings, abnormal inflation of air In is made worse by long duration of occupational exposure and |  |
| Dunlop Wet Area                 | TOXICITY   | IRRITATION  |  |
| Waterproofing                   | Not Available  | Not Available   |  |
|                                 | тохісіту   | IRRITATION  |  |
| barium sulfate                  | dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>  | Not Available   |  |
|                                 | Oral(Mouse) LD50; >3000 mg/kg <sup>[2]</sup>   |   |  |
|                                 |  |   |  |

| Dulliop Wet Alea              |  |  |
|-------------------------------|--|--|
| Waterproofing                 | Not Available  | Not Available  |
|                               | TOXICITY   | IRRITATION   |
| barium sulfate                | dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>  | Not Available  |
|                               | Oral(Mouse) LD50; >3000 mg/kg <sup>[2]</sup>   |  |
|                               | TOXICITY   | IRRITATION   |
| silica crystalline - quartz   | Oral(Rat) LD50; 500 mg/kg <sup>[2]</sup>   | Not Available  |
|                               | TOXICITY   | IRRITATION   |
| ball clay                     | Not Available  | Not Available  |
|                               | TOXICITY   | IRRITATION   |
|                               | dermal (hamster) LD50: >=10000 mg/kg <sup>[2]</sup>                                      | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>  |
| C.I. Pigment White 6          | Inhalation(Rat) LC50; >2.28 mg/l4h <sup>[1]</sup>  | Skin (rabbit)  |
|                               | Oral(Rat) LD50; >=2000 mg/kg <sup>[1]</sup>  | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
|                               | TOXICITY   | IRRITATION   |
|                               | dermal (rat) LD50: 242 mg/kg <sup>[1]</sup>  | Eye: adverse effect observed (irreversible damage)[1]            |
|                               |  |  |
| 2-methyl-4-isothiazolin-3-one | Inhalation(Rat) LC50; 0.1 mg/l4h <sup>[1]</sup>  | Skin: adverse effect observed (corrosive) <sup>[1]</sup>         |
| 2-methyl-4-isothiazolin-3-one | Inhalation(Rat) LC50; 0.1 mg/l4h <sup>[1]</sup> Oral(Rat) LD50; 120 mg/kg <sup>[1]</sup> | Skin: adverse effect observed (corrosive) <sup>[1]</sup>         |

specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

# SILICA CRYSTALLINE -QUARTZ

WARNING: For inhalation exposure ONLY: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS

The International Agency for Research on Cancer (IARC) has classified occupational exposures to respirable (<5 um) crystalline silica as being carcinogenic to humans . This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause silicosis, a non-cancerous lung disease.

Intermittent exposure produces; focal fibrosis, (pneumoconiosis), cough, dyspnoea, liver tumours.

\* Millions of particles per cubic foot (based on impinger samples counted by light field techniques). NOTE: the physical nature of quartz in the product determines whether it is likely to present a chronic health problem. To be a hazard the material must enter the breathing zone as respirable particles.

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**BALL CLAY** Oral (rat) TDLo: 590000 mg/kg Reproductive effector at very high doses. 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. There is no substantive data on genetic damage, though cases have been reported in experimental animals. C.I. PIGMENT WHITE 6 The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. Substance has been investigated as a mutagen, tumorigen and primary irritant. The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. Based on laboratory and animal testing, exposure to the material may result in irreversible effects and mutations in humans. In light of potential adverse effects, and to ensure a harmonised risk assessment and management, the EU regulatory framework for biocides has been established with the objective of ensuring a high level of protection of human and animal health and the environment. To this aim, it is required that risk assessment of biocidal products is carried out before they can be placed on the market. A central element in the risk 2-METHYLassessment of the biocidal products are the utilization instructions that defines the dosage, application method and amount of applications and 4-ISOTHIAZOLIN-3-ONE thus the exposure of humans and the environment to the biocidal substance. Humans may be exposed to biocidal products in different ways in both occupational and domestic settings. Many biocidal products are intended for industrial sectors or professional uses only, whereas other biocidal products are commonly available for private use by non-professional users. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Formaldehyde generators (releasers) are often used as preservatives. The maximum authorised concentration of free formaldehyde is 0.2% and must be labelled with the warning sign "contains formaldehyde" where the concentration exceeds 0.05%. The use of formaldehyde-releasing preservatives ensures that the level of free formaldehyde in the products is always low but sufficient to inhibit microbial growth - it disrupts metabolism to cause death of the organism. However there is a concern that formaldehyde generators can produce amines capable of causing cancers (nitrosamines) when used in formulations containing amines. NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA Considered to be a minor sensitiser in Kathon CG (1) (1). Bruze et al - Contact Dermatitis 20: 219-39, 1989 **BARIUM SULFATE &** 2-METHYL-No significant acute toxicological data identified in literature search. 4-ISOTHIAZOLIN-3-ONE

| Acute Toxicity                    | ×        | Carcinogenicity          | ×        |
|-----------------------------------|----------|--------------------------|----------|
| Skin Irritation/Corrosion         | ×        | Reproductivity           | ×        |
| Serious Eye Damage/Irritation     | ×        | STOT - Single Exposure   | ×        |
| Respiratory or Skin sensitisation | <b>✓</b> | STOT - Repeated Exposure | <b>~</b> |
| Mutagenicity                      | ×        | Aspiration Hazard        | ×        |

Legend:

★ - Data either not available or does not fill the criteria for classification

Data available to make classification

# **SECTION 12 Ecological information**

#### Toxicity

|                                  | Endpoint         | Test Duration (hr) | Species                       | Value            | Source           |
|----------------------------------|------------------|--------------------|-------------------------------|------------------|------------------|
| Dunlop Wet Area<br>Waterproofing | Not<br>Available | Not Available      | Not Available                 | Not<br>Available | Not<br>Available |
|                                  | Endpoint         | Test Duration (hr) | Species                       | Value            | Source           |
|                                  | NOEC(ECx)        | 72h                | Algae or other aquatic plants | >=1.15mg/l       | 2                |
| barium sulfate                   | EC50             | 72h                | Algae or other aquatic plants | >1.15mg/l        | 2                |
|                                  | LC50             | 96h                | Fish                          | >3.5mg/l         | 2                |
|                                  | EC50             | 48h                | Crustacea                     | 32mg/l           | 4                |
|                                  | Endpoint         | Test Duration (hr) | Species                       | Value            | Source           |
| silica crystalline - quartz      | Not<br>Available | Not Available      | Not Available                 | Not<br>Available | Not<br>Availabl  |
|                                  | Endpoint         | Test Duration (hr) | Species                       | Value            | Source           |
| ball clay                        | Not<br>Available | Not Available      | Not Available                 | Not<br>Available | Not<br>Availabl  |

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|                               | Endpoint  | Test Duration (hr) | Species                       | Value           | Source |
|-------------------------------|-----------|--------------------|-------------------------------|-----------------|--------|
|                               | EC50      | 72h                | Algae or other aquatic plants | 3.75-7.58mg/l   | 4      |
|                               | BCF       | 1008h              | Fish                          | <1.1-9.6        | 7      |
| C.I. Pigment White 6          | EC50      | 48h                | Crustacea                     | 1.9mg/l         | 2      |
|                               | LC50      | 96h                | Fish                          | 1.85-3.06mg/l   | 4      |
|                               | NOEC(ECx) | 504h               | Crustacea                     | 0.02mg/l        | 4      |
|                               | EC50      | 96h                | Algae or other aquatic plants | 179.05mg/l      | 2      |
| 2-methyl-4-isothiazolin-3-one | Endpoint  | Test Duration (hr) | Species                       | Value           | Source |
|                               | LC50      | 96h                | Fish                          | 0.081-0.122mg/L | 4      |
|                               | EC50      | 48h                | Crustacea                     | 0.189-0.257mg/L | 4      |
|                               | NOEC(ECx) | 96h                | Algae or other aquatic plants | 0.01mg/l        | 2      |
|                               |           |                    |                               | 0.062ma/l       | 2      |
|                               | EC50      | 96h                | Algae or other aquatic plants | 0.063mg/l       |        |

#### DO NOT discharge into sewer or waterways.

#### Persistence and degradability

| Ingredient                    | Persistence: Water/Soil | Persistence: Air |
|-------------------------------|-------------------------|------------------|
| C.I. Pigment White 6          | HIGH                    | HIGH             |
| 2-methyl-4-isothiazolin-3-one | HIGH                    | HIGH             |

Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

#### **Bioaccumulative potential**

| Ingredient                    | Bioaccumulation        |
|-------------------------------|------------------------|
| C.I. Pigment White 6          | LOW (BCF = 10)         |
| 2-methyl-4-isothiazolin-3-one | LOW (LogKOW = -0.8767) |

#### Mobility in soil

| Ingredient                    | Mobility          |
|-------------------------------|-------------------|
| C.I. Pigment White 6          | LOW (KOC = 23.74) |
| 2-methyl-4-isothiazolin-3-one | LOW (KOC = 27.88) |

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

#### Waste treatment methods

- ▶ 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.

# Product / Packaging disposal

- ► Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers.

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

# Labels Required

| 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         |  |
|-----------------------------|---------------|--|
| barium sulfate              | Not Available |  |
| silica crystalline - quartz | Not Available |  |

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| Product name                  | Group         |
|-------------------------------|---------------|
| ball clay                     | Not Available |
| C.I. Pigment White 6          | Not Available |
| 2-methyl-4-isothiazolin-3-one | Not Available |

#### Transport in bulk in accordance with the ICG Code

| Product name                  | Ship Type     |
|-------------------------------|---------------|
| barium sulfate                | Not Available |
| silica crystalline - quartz   | Not Available |
| ball clay                     | Not Available |
| C.I. Pigment White 6          | Not Available |
| 2-methyl-4-isothiazolin-3-one | Not Available |

#### **SECTION 15 Regulatory information**

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

# barium sulfate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

# silica crystalline - quartz is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Model Work Health and Safety Regulations - Hazardous chemicals (other than lead) requiring health monitoring

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

#### ball clay is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

#### C.I. Pigment White 6 is found on the following regulatory lists

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 International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

#### 2-methyl-4-isothiazolin-3-one 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 6

Australian Inventory of Industrial Chemicals (AIIC)

#### **National Inventory Status**

Monographs

| National Inventory                                 | Status  |
|--|---|
| Australia - AIIC / Australia<br>Non-Industrial Use | Yes   |
| Canada - DSL                                       | Yes   |
| Canada - NDSL                                      | No (barium sulfate; silica crystalline - quartz; ball clay; C.I. Pigment White 6; 2-methyl-4-isothiazolin-3-one)  |
| China - IECSC                                      | Yes   |
| Europe - EINEC / ELINCS / NLP                      | Yes   |
| Japan - ENCS                                       | No (ball clay)  |
| 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 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 | 15/04/2021 |
|---------------|------------|
| Initial Date  | 14/02/2020 |

#### **SDS Version Summary**

| Version | Date of Update | Sections Updated |
|---------|----------------|------------------|
| Version | Date of Update | Sections Updated |

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Version No: 6.1.10.8 Punton Wet Area Weterpressing

# **Dunlop Wet Area Waterproofing**

| Version  | Date of Update | Sections Updated  |
|----------|----------------|---|
| 5.1.1.1  | 03/09/2020     | Classification change due to full database hazard calculation/update. |
| 6.1.1.1  | 15/04/2021     | Classification change due to full database hazard calculation/update. |
| 6.1.2.1  | 26/04/2021     | Regulation Change   |
| 6.1.3.1  | 03/05/2021     | Regulation Change   |
| 6.1.4.1  | 06/05/2021     | Regulation Change   |
| 6.1.5.1  | 10/05/2021     | Regulation Change   |
| 6.1.5.2  | 30/05/2021     | Template Change   |
| 6.1.5.3  | 04/06/2021     | Template Change   |
| 6.1.5.4  | 05/06/2021     | Template Change   |
| 6.1.6.4  | 07/06/2021     | Regulation Change   |
| 6.1.6.5  | 09/06/2021     | Template Change   |
| 6.1.6.6  | 11/06/2021     | Template Change   |
| 6.1.6.7  | 15/06/2021     | Template Change   |
| 6.1.7.7  | 17/06/2021     | Regulation Change   |
| 6.1.8.7  | 21/06/2021     | Regulation Change   |
| 6.1.8.8  | 05/07/2021     | Template Change   |
| 6.1.9.8  | 14/07/2021     | Regulation Change   |
| 6.1.10.8 | 19/07/2021     | 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**

 ${\sf PC-TWA: Permissible \ Concentration-Time \ Weighted \ Average}$ 

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

LOAEL: Lowest Observed Adverse Effect Leve TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BCF: BioConcentration Factor

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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