

# **Dunlop Vinyl Adhesive**

Ardex (Ardex Australia)

Chemwatch: **4661-39** Version No: **4.1.1.1** 

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 07/12/2015 Print Date: 08/12/2015 Initial Date: Not Available S.GHS.AUS.EN

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

#### **Product Identifier**

| Product name                  | Dunlop Vinyl Adhesive |
|-------------------------------|-----------------------|
| Synonyms                      | Not Available         |
| Other means of identification | Not Available         |

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

Relevant identified uses Acrylic latex specifically formulates for adhering most types of commercial unbacked flexible vinyl sheeting, most foam backed vinyl and most types of vinyl tiles.

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

| Registered company name | Ardex (Ardex Australia)                       | Ardex (Ardex NZ)                                 |  |
|-------------------------|---|--|--|
| Address                 | 20 Powers Road Seven Hills 2147 NSW Australia | 32 Lane Street Woolston Christchurch New Zealand |  |
| Telephone               | ephone 1800 224 070 +64 3384 3029             |  |  |
| Fax                     | +61 2 9838 7817                               | +64 3384 9779                                    |  |
| Website                 | ot Available Not Available                    |  |  |
| Email                   | Email Not Available Not Available             |  |  |

## Emergency telephone number

| Association / Organisation        | Not Available | Not Available                      |
|-----------------------------------|---------------|------------------------------------|
| Emergency telephone numbers       | 1800 222 841  | 1800 222 841 (General information) |
| Other emergency telephone numbers | Not Available | Not Available                      |

### **SECTION 2 HAZARDS IDENTIFICATION**

## Classification of the substance or mixture

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

## CHEMWATCH HAZARD RATINGS

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

| Poisons Schedule       | Not Applicable   |  |
|------------------------|--|--|
| GHS Classification [1] | Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1, STOT - SE (Resp. Irr.) Category 3                         |  |
| Legend:                | 1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI |  |

### Label elements

GHS label elements



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| SIGNAL WORD                | DANGER   |
|----------------------------|--|
| Hazard statement(s)        |  |
| H315                       | Causes skin irritation   |
| H318                       | Causes serious eye damage  |
| H335                       | May cause respiratory irritation   |
| Precautionary statement(s) | Prevention   |
| P271                       | Use only outdoors or in a well-ventilated area.                            |
| P280                       | Wear protective gloves/protective clothing/eye protection/face protection. |
| P261                       | Avoid breathing dust/fume/gas/mist/vapours/spray.                          |
|                            |  |

### Precautionary statement(s) Response

|                | ·  |  |
|----------------|--|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |  |
| P310           | Immediately call a POISON CENTER or doctor/physician.  |  |
| P362           | Take off contaminated clothing and wash before reuse.  |  |
| P302+P352      | IF ON SKIN: Wash with plenty of soap and water.  |  |

## Precautionary statement(s) Storage

| P405      | Store locked up.   |
|-----------|--|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

## Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

## **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

### Substances

See section below for composition of Mixtures

### Mixtures

| CAS No        | %[weight] | Name                           |  |
|---------------|-----------|--------------------------------|--|
| Not Available | 30-50     | acrylic co-polymer dispersion. |  |
| 471-34-1      | 20-40     | calcium carbonate              |  |
| Not Available | 15-25     | rosin ester.                   |  |
| Not Available | 1-5       | non hazardous ingredients      |  |

## **SECTION 4 FIRST AID MEASURES**

## 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 contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.  |
| Inhalation   | <ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>                         |
| Ingestion    | <ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>  |

### 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.

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#### 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

Fire/Explosion Hazard

- ▶ Alert Fire Brigade and tell them location and nature of hazard.
- ▶ Wear breathing apparatus plus protective gloves in the event of a fire.
- ▶ Prevent, by any means available, spillage from entering drains or water courses.
- ▶ Use fire fighting procedures suitable for surrounding area.
- ▶ The material is not readily combustible under normal conditions.
- ► However, it will break down under fire conditions and the organic component may burn.
- Not considered to be a significant fire risk.
- ▶ Heat may cause expansion or decomposition with violent rupture of containers.

Other decomposition products include; carbon dioxide (CO2) other pyrolysis products typical of burning organic materialMay emit poisonous fumes. May emit corrosive fumes.

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

Minor Spills

- ▶ Clean up all spills immediately.
- Avoid contact with skin and eyes.
- ▶ Wear impervious gloves and safety goggles.
- ► Trowel up/scrape up.

Major Spills

Minor hazard.

► Clear area of personnel

- ► Alert Fire Brigade and tell them location and nature of hazard.
- ► Control personal contact with the substance, by using protective equipment as required.

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

#### **SECTION 7 HANDLING AND STORAGE**

#### Precautions for safe handling

Safe handling

- ▶ Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- ▶ Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- Other information
- ▶ Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- ► Store away from incompatible materials and foodstuff containers.

### Conditions for safe storage, including any incompatibilities

Suitable container

Storage incompatibility

► Polyethylene or polypropylene container.

The basic types of engineering controls are:

- Packing as recommended by manufacturer.
   Check all containers are clearly labelled and free from leaks
- A consideration and a substitution and and
  - Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.
     Avoid reaction with oxidising agents
- 7 Troid Todation Will oxidioning agonic

# 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 | calcium carbonate | Calcium carbonate | 10 mg/m3 | Not Available | Not Available | Not Available |

### EMERGENCY LIMITS

| Ingredient                     | Material name                            | IEEL-1        | IEEL-2    | TEEL-3     |  |
|--------------------------------|--|---------------|-----------|------------|--|
| calcium carbonate              | Limestone; (Calcium carbonate; Dolomite) | 27 mg/m3      | 27 mg/m3  | 1300 mg/m3 |  |
| calcium carbonate              | Carbonic acid, calcium salt              | 45 mg/m3      | 210 mg/m3 | 1300 mg/m3 |  |
|                                |  |               |           |            |  |
| Ingredient                     | Original IDLH                            | Revised IDLH  |           |            |  |
| acrylic co-polymer dispersion. | Not Available                            | Not Available |           |            |  |
| calcium carbonate              | Not Available                            | Not Available |           |            |  |
| rosin ester.                   | Not Available                            | Not Available |           |            |  |
| non hazardous ingredients      | Not Available                            | Not Available |           |            |  |

### Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

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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 Chemical goggles. Eye and face protection Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. Skin protection ▶ Wear chemical protective gloves, e.g. PVC. Hands/feet protection ▶ Wear safety footwear or safety gumboots, e.g. Rubber **Body protection** See Other protection below Overalls. Other protection ▶ P.V.C. apron. Barrier cream. Thermal hazards Not Available

## Respiratory protection

Not Available

Not Available

## **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

| Appearance                                   | Off white slightly alkaline paste; dispersible in water. |   |                |
|--|--|---|----------------|
|  |  |   |                |
| Physical state                               | Non Slump Paste  | Relative density (Water = 1)            | 1.3            |
| Odour  | Not Available  | Partition coefficient n-octanol / water | Not Available  |
| Odour threshold                              | Not Available  | Auto-ignition temperature (°C)          | Not Applicable |
| pH (as supplied)                             | 8-9  | Decomposition temperature               | Not Available  |
| Melting point / freezing point (°C)          | Not Available  | Viscosity (cSt)                         | Not Available  |
| Initial boiling point and boiling range (°C) | 100 (initial)  | 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)               | 28 (water)     |
| Vapour pressure (kPa)                        | Not Available  | Gas group                               | Not Available  |
| Solubility in water (g/L)                    | Miscible   | pH as a solution (1%)                   | Not Available  |
| Vapour density (Air = 1)                     | Not Available  | VOC g/L                                 | Not Available  |

# **SECTION 10 STABILITY AND REACTIVITY**

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

## **SECTION 11 TOXICOLOGICAL INFORMATION**

### Information on toxicological effects

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

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| The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact destinations with its characterised by redecess, swelling and bilatering.  Open cuts, storaded or initiated skin should not be exposed to this material Entity into the blood-stream, through, for example, cuts, storaders or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any executal canage is suitably protected.  Eye  Chronic  Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.  Dunlop Vinyl Adhesive  TOXICITY  IRRITATION  Not Available  TOXICITY  IRRITATION  Skin (rabbit): 0.75 mg/24h - SEVERE  Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup> Eye (rabbit): 0.75 mg/24h - SEVERE  Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup> I, value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances  Asthma-like symptoms may continue for months or even years after exposure to the material cases. This may be due to a non-altergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly initiating compound. Key criteria for diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abupt orset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the initiant. A versible airflow pattern, on spriometry the presence of mortical to severe bronchial hyperencedivity on metaerial may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production o | Ingestion                 | 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 corroborating animal or human evidence.  |                        |                                    |  |
|--|---------------------------|---|------------------------|------------------------------------|--|
| Chronic  Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.    Dunlop Vinyl Adhesive   | Skin Contact              | dermatitis which is characterised by redness, swelling and blistering.  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   |                        |                                    |  |
| Dunlop Vinyl Adhesive  TOXICITY Not Available  TOXICITY Not Available  TOXICITY Not Available  TOXICITY Not Available  TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Cral (rat) LD50: >2000 mg/kg <sup>[1]</sup> Skin (rabbit): 0.75 mg/24h - SEVERE  Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup> Skin (rabbit): 500 mg/24h-moderate  Legend:  Legend:  Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly initiating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-alopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the initiant. A reversible airliow pattern, on spirometry, with the presence of moderate to severe bronchial hypereactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.  The material may produce severe limitation to the eye causing pronounced inflammation, Repeated or prolonged exposure to intriants 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.  No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.  | Eye                       | If applied to the eyes, this material causes severe eye damage  | 9.                     |                                    |  |
| Dunlop Vinyl Adhesive    Not Available   | Chronic                   |   |                        |                                    |  |
| TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Legend:  1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances  Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflowatern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.  The material may produce severe irritation to the eye causing pronounced 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.  No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.  Acute Toxicity  Skin Irritation/Corrosion  Reproductivity  String Synosure   | Dunlan Vinud Adhasins     | TOXICITY  | IRRITATION             |                                    |  |
| calcium carbonate  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Cral (rat) LD50: >2000 mg/kg <sup>[1]</sup> Skin (rabbit): 500 mg/24h-moderate  Legend:  1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances  Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.  The material may produce severe irritation to the eye causing pronounced 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.  No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.  Acute Toxicity  Skin Irritation/Corrosion  Reproductivity  Stront - Single Evrosure  | Duniop vinyi Adnesive     | Not Available   | Not Available          |                                    |  |
| CALCIUM CARBONATE  CALCIUM CARBO                   |                           | TOXICITY  | IRRITATION             |                                    |  |
| Legend:  1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances  Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive ainways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-allergenic productural, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.  The material may produce severe irritation to the eye causing pronounced 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.  No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.  Acute Toxicity  Skin Irritation/Corrosion  Reproductivity  STOT - Single Exposure  | calcium carbonate         | dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>   | Eye (rabbit): 0.       | Eye (rabbit): 0.75 mg/24h - SEVERE |  |
| Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive ainways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.  The material may produce severe irritation to the eye causing pronounced 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.  No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.  Acute Toxicity  Serious Eye  Stort - Single Exposure   |                           | Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>   | Skin (rabbit): 50      | ): 500 mg/24h-moderate             |  |
| reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.  The material may produce severe irritation to the eye causing pronounced 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.  No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.  Acute Toxicity  Skin Irritation/Corrosion  Reproductivity  Strot - Single Exposure  | Legend:                   |   |                        |                                    |  |
| Skin Irritation/Corrosion  Serious Eye  STOT - Single Exposure   | CALCIUM CARBONATE         | reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.  The material may produce severe irritation to the eye causing pronounced 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. |                        |                                    |  |
| Serious Eye STOT - Single Exposure   | Acute Toxicity            | 0   | Carcinogenicity        | 0                                  |  |
| S1()1 - Single Exposure  | Skin Irritation/Corrosion | <b>~</b>  | Reproductivity         | 0                                  |  |
|  | -                         | <b>✓</b>  | STOT - Single Exposure | <b>~</b>                           |  |

**Aspiration Hazard** Legend:

STOT - Repeated Exposure

0

0

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

## **SECTION 12 ECOLOGICAL INFORMATION**

0

0

Respiratory or Skin

sensitisation

Mutagenicity

# Toxicity

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

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

## Persistence and degradability

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

## Bioaccumulative potential

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

## Mobility in soil

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

## **Dunlop Vinyl Adhesive**

## **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.

#### Product / Packaging disposal

- Where in doubt contact the responsible authority. Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Authority for disposal.
- Bury or incinerate residue at an approved site.
- ▶ Recycle containers if possible, or dispose of in an authorised landfill.

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

#### Labels Required

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

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

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

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

#### **SECTION 15 REGULATORY INFORMATION**

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

### CALCIUM CARBONATE(471-34-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

| Australia Exposure Standards     | Australia Inventory of Chemical Substances (AICS)   |         |
|----------------------------------|---|---------|
| National Inventory               | Status  |         |
| Australia - AICS                 | Y   |         |
| Canada - DSL                     | Υ   |         |
| Canada - NDSL                    | Υ   |         |
| China - IECSC                    | Υ   |         |
| Europe - EINEC / ELINCS /<br>NLP | Y   |         |
| Japan - ENCS                     | Υ   |         |
| Korea - KECI                     | Υ   |         |
| New Zealand - NZIoC              | Y   |         |
| Philippines - PICCS              | Υ   |         |
| USA - TSCA                       | Y   |         |
| Legend:                          | Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in broadless). | ackets) |

# **SECTION 16 OTHER INFORMATION**

### Other information

### Ingredients with multiple cas numbers

| Name              | CAS No  |
|-------------------|---|
| calcium carbonate | 1317-65-3, 13397-26-7, 146358-95-4, 15634-14-7, 198352-33-9, 459411-10-0, 471-34-1, 63660-97-9, 72608-12-9, 878759-26-3 |

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level Chemwatch: 4661-39 Page 7 of 7 Issue Date: 07/12/2015 Version No: 4.1.1.1 Print Date: 08/12/2015

# **Dunlop Vinyl Adhesive**

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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TEL (+61 3) 9572 4700.