



## Rezisafe R230 Topcoat Rezitech Services

Chemwatch: 5094-53

Version No: 8.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 14/12/2020

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S.GHS.AUS.EN.RISK

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

#### Product Identifier

|                               |                       |
|-------------------------------|-----------------------|
| Product name                  | Rezisafe R230 Topcoat |
| 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 | Water-based self cross linking industrial topcoat.<br>Application is by brush or hand roller |
|--------------------------|----------------------------------------------------------------------------------------------|

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

|                         |                                                        |
|-------------------------|--------------------------------------------------------|
| Registered company name | Rezitech Services                                      |
| Address                 | 109-111 Wedgewood Road, Hallam Victoria 3803 Australia |
| Telephone               | +61 3 8720 8600                                        |
| Fax                     | Not Available                                          |
| Website                 | Not Available                                          |
| Email                   | Not Available                                          |

#### Emergency telephone number

|                                   |               |
|-----------------------------------|---------------|
| Association / Organisation        | Not Available |
| Emergency telephone numbers       | Not Available |
| Other emergency telephone numbers | Not Available |

### SECTION 2 Hazards identification

#### Classification of the substance or mixture

|                    |                                                                                                                                                                                                                                                                                    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poisons Schedule   | Not Applicable                                                                                                                                                                                                                                                                     |
| Classification [1] | Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Germ cell mutagenicity Category 2, Carcinogenicity Category 1A, Acute Aquatic Hazard Category 3<br>*LIMITED EVIDENCE |
| Legend:            | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI                                                                                                                                                |

#### Label elements

|                     |        |
|---------------------|--------|
| Hazard pictogram(s) |        |
| Signal word         | Danger |

#### Hazard statement(s)

|      |                         |
|------|-------------------------|
| H315 | Causes skin irritation. |
|------|-------------------------|

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|      |                                       |
|------|---------------------------------------|
| H319 | Causes serious eye irritation.        |
| H335 | May cause respiratory irritation.     |
| H341 | Suspected of causing genetic defects. |
| H350 | May cause cancer.                     |
| H402 | Harmful to aquatic life.              |

\*LIMITED EVIDENCE

## Precautionary statement(s) Prevention

|      |                                                 |
|------|-------------------------------------------------|
| P201 | Obtain special instructions before use.         |
| P271 | Use only outdoors or in a well-ventilated area. |
| P281 | Use personal protective equipment as required.  |
| P261 | Avoid breathing mist/vapours/spray.             |

## Precautionary statement(s) Response

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P308+P313      | IF exposed or concerned: Get medical advice/attention.                                                                           |
| P321           | Specific treatment (see advice on this label).                                                                                   |
| P362           | Take off contaminated clothing and wash before reuse.                                                                            |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

## 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 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                                     |
|---------------|-----------|------------------------------------------|
| 207996-61-0   | 30-60     | <u>acrylic copolymer latex</u>           |
| 13463-67-7    | 10-30     | <u>titanium dioxide</u>                  |
| 1336-21-6     | <0.1      | <u>ammonium hydroxide</u>                |
| Not Available | <0.1      | isothiazolinones                         |
| 112-34-5      | 1-5       | <u>diethylene glycol monobutyl ether</u> |
| Not Available | 5-15      | additives                                |
| 7732-18-5     | 1-9       | <u>water</u>                             |

## SECTION 4 First aid measures

## Description of first aid measures

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact  | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <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 | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>                                                                                                                                                                                                                                                                                                                                             |
| Ingestion    | <ul style="list-style-type: none"> <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.

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- ▶ Use extinguishing media suitable for surrounding area.

## Special hazards arising from the substrate or mixture

|                             |                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Incompatibility</b> | ▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|

## Advice for firefighters

|                              |                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <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> |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Non combustible.</li> <li>▶ Not considered a significant fire risk, however containers may burn.</li> </ul> Decomposition may produce toxic fumes of:<br>carbon dioxide (CO <sub>2</sub> )<br>other pyrolysis products typical of burning organic material.                                                                      |
| <b>HAZCHEM</b>               | 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

|                     |                                                                                                                                                                                                                                                                                                                                                          |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Minor Spills</b> | Slippery when spilt. <ul style="list-style-type: none"> <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> |
| <b>Major Spills</b> | Slippery when spilt.<br>Moderate hazard. <ul style="list-style-type: none"> <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> </ul>                                                                             |

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

## SECTION 7 Handling and storage

## Precautions for safe handling

|                          |                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <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>▶ Avoid contact with moisture.</li> <li>▶ <b>DO NOT allow clothing wet with material to stay in contact with skin</b></li> </ul> |
| <b>Other information</b> | <ul style="list-style-type: none"> <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>                                                                                 |

## Conditions for safe storage, including any incompatibilities

|                                |                                                                                                                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable container</b>      | <ul style="list-style-type: none"> <li>▶ Polyethylene or polypropylene container.</li> <li>▶ Packing as recommended by manufacturer.</li> <li>▶ Check all containers are clearly labelled and free from leaks.</li> </ul> |
| <b>Storage incompatibility</b> | ▶ 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 | titanium dioxide | Titanium dioxide | 10 mg/m <sup>3</sup> | Not Available | Not Available | (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. |

## Emergency Limits

| Ingredient         | Material name                      | TEEL-1               | TEEL-2                | TEEL-3                  |
|--------------------|------------------------------------|----------------------|-----------------------|-------------------------|
| titanium dioxide   | Titanium oxide; (Titanium dioxide) | 30 mg/m <sup>3</sup> | 330 mg/m <sup>3</sup> | 2,000 mg/m <sup>3</sup> |
| ammonium hydroxide | Ammonium hydroxide                 | 61 ppm               | 330 ppm               | 2,300 ppm               |

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| Ingredient                        | Material name                                                    | TEEL-1 | TEEL-2 | TEEL-3  |
|-----------------------------------|------------------------------------------------------------------|--------|--------|---------|
| diethylene glycol monobutyl ether | Butoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monobutyl ether) | 30 ppm | 33 ppm | 200 ppm |

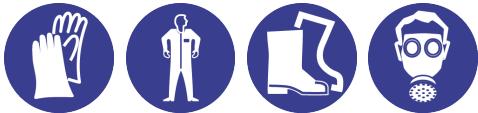
| Ingredient                        | Original IDLH | Revised IDLH  |
|-----------------------------------|---------------|---------------|
| acrylic copolymer latex           | Not Available | Not Available |
| titanium dioxide                  | 5,000 mg/m3   | Not Available |
| ammonium hydroxide                | Not Available | Not Available |
| diethylene glycol monobutyl ether | Not Available | Not Available |
| water                             | Not Available | Not Available |

## Occupational Exposure Banding

| Ingredient                        | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|-----------------------------------|-----------------------------------|----------------------------------|
| ammonium hydroxide                | E                                 | ≤ 0.1 ppm                        |
| diethylene glycol monobutyl ether | E                                 | ≤ 0.1 ppm                        |

**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

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b> | 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.<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 "adds" and "removes" air in the work environment. |
| <b>Personal protection</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Eye and face protection</b>          | <ul style="list-style-type: none"> <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>                                                                                                                                                                                                                                                                                       |
| <b>Skin protection</b>                  | See Hand protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Hands/feet protection</b>            | <ul style="list-style-type: none"> <li>▶ Wear chemical protective gloves, e.g. PVC.</li> <li>▶ Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Body protection</b>                  | See Other protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Other protection</b>                 | <ul style="list-style-type: none"> <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:

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| Material         | CPI |
|------------------|-----|
| BUTYL            | A   |
| NEOPRENE         | A   |
| HYPALON          | C   |
| NATURAL RUBBER   | C   |
| NATURAL+NEOPRENE | C   |
| NEOPRENE/NATURAL | C   |
| NITRILE          | C   |
| NITRILE+PVC      | C   |
| PVA              | C   |
| PVC              | C   |
| VITON            | C   |

\* 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 AK-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 Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator   |
|------------------------------------|----------------------|----------------------|--------------------------|
| up to 10 x ES                      | AK-AUS P2            | -                    | AK-PAPR-AUS / Class 1 P2 |
| up to 50 x ES                      | -                    | AK-AUS / Class 1 P2  | -                        |
| up to 100 x ES                     | -                    | AK-2 P2              | AK-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)

Continued...

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selection must be based on detailed observation. -

\* 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.

## SECTION 9 Physical and chemical properties

## Information on basic physical and chemical properties

|                                                     |                                                                            |                                                |                |
|-----------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|----------------|
| <b>Appearance</b>                                   | White or coloured liquid with a characteristic odour; miscible with water. |                                                |                |
| <b>Physical state</b>                               | Liquid                                                                     | <b>Relative density (Water = 1)</b>            | 1.23-1.28      |
| <b>Odour</b>                                        | Not Available                                                              | <b>Partition coefficient n-octanol / water</b> | Not Available  |
| <b>Odour threshold</b>                              | Not Available                                                              | <b>Auto-ignition temperature (°C)</b>          | Not Available  |
| <b>pH (as supplied)</b>                             | Not Available                                                              | <b>Decomposition temperature</b>               | Not Available  |
| <b>Melting point / freezing point (°C)</b>          | Not Available                                                              | <b>Viscosity (cSt)</b>                         | Not Available  |
| <b>Initial boiling point and boiling range (°C)</b> | 100 approx                                                                 | <b>Molecular weight (g/mol)</b>                | Not Applicable |
| <b>Flash point (°C)</b>                             | Not Applicable                                                             | <b>Taste</b>                                   | Not Available  |
| <b>Evaporation rate</b>                             | as for water                                                               | <b>Explosive properties</b>                    | Not Available  |
| <b>Flammability</b>                                 | Not Applicable                                                             | <b>Oxidising properties</b>                    | Not Available  |
| <b>Upper Explosive Limit (%)</b>                    | Not Applicable                                                             | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Available  |
| <b>Lower Explosive Limit (%)</b>                    | Not Applicable                                                             | <b>Volatile Component (%vol)</b>               | Not Available  |
| <b>Vapour pressure (kPa)</b>                        | as for water                                                               | <b>Gas group</b>                               | Not Available  |
| <b>Solubility in water</b>                          | Miscible                                                                   | <b>pH as a solution (1%)</b>                   | Not Available  |
| <b>Vapour density (Air = 1)</b>                     | as for water                                                               | <b>VOC g/L</b>                                 | Not Available  |

## SECTION 10 Stability and reactivity

|                                           |                                                                                                                                                                                                      |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | See section 7                                                                                                                                                                                        |
| <b>Chemical stability</b>                 | <ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul> |
| <b>Possibility of hazardous reactions</b> | See section 7                                                                                                                                                                                        |
| <b>Conditions to avoid</b>                | See section 7                                                                                                                                                                                        |
| <b>Incompatible materials</b>             | See section 7                                                                                                                                                                                        |
| <b>Hazardous decomposition products</b>   | See section 5                                                                                                                                                                                        |

## SECTION 11 Toxicological information

## Information on toxicological effects

|                     |                                                                                                                                                                                                                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhaled</b>      | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. |
| <b>Ingestion</b>    | 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.                                                                                                                    |
| <b>Skin Contact</b> | 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.                                                                                                                    |
| <b>Eye</b>          | There is some evidence to suggest that this material can cause eye irritation and damage in some persons.                                                                                                                                                                                                         |
| <b>Chronic</b>      | Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.                                                                                                                                                                            |

|                                |                                              |                                                                  |
|--------------------------------|----------------------------------------------|------------------------------------------------------------------|
| <b>Rezisafe R230 Topcoat</b>   | <b>TOXICITY</b>                              | <b>IRRITATION</b>                                                |
|                                | Not Available                                | Not Available                                                    |
| <b>acrylic copolymer latex</b> | <b>TOXICITY</b>                              | <b>IRRITATION</b>                                                |
|                                | Not Available                                | Not Available                                                    |
| <b>titanium dioxide</b>        | <b>TOXICITY</b>                              | <b>IRRITATION</b>                                                |
|                                | 0.0032 mg/kg <sup>[2]</sup>                  | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>  |
|                                | 0.04 mg/kg <sup>[2]</sup>                    | Skin (human): 0.3 mg /3D (int)-mild *                            |
|                                | 60000 mg/kg <sup>[2]</sup>                   | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
|                                | Oral(Mouse) LD50 >10000 mg/kg <sup>[2]</sup> |                                                                  |

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|                                   |                                                                                                                                                                                                                              |                                  |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                                   | Oral(Rat) LD50 >2000 mg/kg <sup>[1]</sup>                                                                                                                                                                                    |                                  |
| ammonium hydroxide                | <b>TOXICITY</b>                                                                                                                                                                                                              | <b>IRRITATION</b>                |
|                                   | =750 mg/kg <sup>[2]</sup>                                                                                                                                                                                                    | Eye (rabbit): 0.25 mg SEVERE     |
|                                   | 20 mg/kg <sup>[2]</sup>                                                                                                                                                                                                      | Eye (rabbit): 1 mg/30s SEVERE    |
|                                   | 43 mg/kg <sup>[2]</sup>                                                                                                                                                                                                      |                                  |
|                                   | Inhalation(Rat) LC50 1997.718 mg/l/4h <sup>[2]</sup>                                                                                                                                                                         |                                  |
|                                   | Oral(Rat) LD50 ~350-370 mg/kg <sup>[2]</sup>                                                                                                                                                                                 |                                  |
| diethylene glycol monobutyl ether | <b>TOXICITY</b>                                                                                                                                                                                                              | <b>IRRITATION</b>                |
|                                   | Dermal (rabbit) LD50: 4120 mg/kg <sup>[2]</sup>                                                                                                                                                                              | Eye (rabbit): 20 mg/24h moderate |
|                                   | Oral(Guinea) LD50 =1720-2310 mg/kg <sup>[2]</sup>                                                                                                                                                                            | Eye (rabbit): 5 mg - SEVERE      |
|                                   | Oral(Mouse) LD50 =5526 mg/kg <sup>[2]</sup>                                                                                                                                                                                  |                                  |
|                                   | Oral(Rabbit) LD50 =2200 mg/kg <sup>[2]</sup>                                                                                                                                                                                 |                                  |
|                                   | Oral(Rat) LD50 =4500 mg/kg <sup>[2]</sup>                                                                                                                                                                                    |                                  |
|                                   | Oral(Rat) LD50 =5080 mg/kg <sup>[2]</sup>                                                                                                                                                                                    |                                  |
|                                   | Oral(Rat) LD50 =5660 mg/kg <sup>[2]</sup>                                                                                                                                                                                    |                                  |
| water                             | <b>TOXICITY</b>                                                                                                                                                                                                              | <b>IRRITATION</b>                |
|                                   | Oral(Rat) LD50 >90000 mg/kg <sup>[2]</sup>                                                                                                                                                                                   | Not Available                    |
| <b>Legend:</b>                    | 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 |                                  |

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TITANIUM DIOXIDE                                       | <p>* IUCLID</p> <p>Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation.</p> <p>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.</p> <p>The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.</p> <p>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.</p> <p><b>WARNING:</b> This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.</p> |
| DIETHYLENE GLYCOL MONOBUTYL ETHER                      | This category includes diethylene glycol ethyl ether (DGEE), diethylene glycol propyl ether (DGPE) diethylene glycol butyl ether (DGBE) and diethylene glycol hexyl ether (DGHE) and their acetates. Studies show that they can cause kidney and liver damage, skin and eye irritation as well as blood changes but do not cause damage to the reproductive, genetic and developmental abnormalities, sensitisation or respiratory systems. However, DGEE is reported to cause sperm insufficiency.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ACRYLIC COPOLYMER LATEX & TITANIUM DIOXIDE & WATER     | No significant acute toxicological data identified in literature search.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| TITANIUM DIOXIDE & AMMONIUM HYDROXIDE                  | 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.                                                                                                                                                                                                                                                                                                                                                                                                                |
| AMMONIUM HYDROXIDE & DIETHYLENE GLYCOL MONOBUTYL ETHER | The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity                    | ✗ | Carcinogenicity          | ✓ |
| Skin Irritation/Corrosion         | ✓ | Reproductivity           | ✗ |
| Serious Eye Damage/Irritation     | ✓ | STOT - Single Exposure   | ✓ |
| Respiratory or Skin sensitisation | ✗ | STOT - Repeated Exposure | ✗ |
| 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

| Rezisafe R230 Topcoat | Endpoint      | Test Duration (hr) | Species       | Value         | Source        |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|
|                       | Not Available | Not Available      | Not Available | Not Available | Not Available |

Continued...

## Rezisafe R230 Topcoat

| acrylic copolymer latex                                                                                                                                                                                                                                                                                                                                                                                  | Endpoint      | Test Duration (hr) | Species                       | Value          | Source        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|-------------------------------|----------------|---------------|
|                                                                                                                                                                                                                                                                                                                                                                                                          | Not Available | Not Available      | Not Available                 | Not Available  | Not Available |
| titanium dioxide                                                                                                                                                                                                                                                                                                                                                                                         | Endpoint      | Test Duration (hr) | Species                       | Value          | Source        |
|                                                                                                                                                                                                                                                                                                                                                                                                          | LC50          | 96                 | Fish                          | -1.85-3.06mg/L | 4             |
|                                                                                                                                                                                                                                                                                                                                                                                                          | EC50          | 48                 | Crustacea                     | 1.9mg/L        | 2             |
|                                                                                                                                                                                                                                                                                                                                                                                                          | EC50          | 72                 | Algae or other aquatic plants | -3.75-7.58mg/L | 4             |
|                                                                                                                                                                                                                                                                                                                                                                                                          | BCF           | 24                 | Crustacea                     | 0.66mg/L       | 4             |
|                                                                                                                                                                                                                                                                                                                                                                                                          | NOEC          | 552                | Not Available                 | 0.01-mg/L      | 4             |
| ammonium hydroxide                                                                                                                                                                                                                                                                                                                                                                                       | Endpoint      | Test Duration (hr) | Species                       | Value          | Source        |
|                                                                                                                                                                                                                                                                                                                                                                                                          | LC50          | 96                 | Fish                          | 37mg/L         | 4             |
|                                                                                                                                                                                                                                                                                                                                                                                                          | NOEC          | 72                 | Fish                          | 3.5mg/L        | 4             |
| diethylene glycol monobutyl ether                                                                                                                                                                                                                                                                                                                                                                        | Endpoint      | Test Duration (hr) | Species                       | Value          | Source        |
|                                                                                                                                                                                                                                                                                                                                                                                                          | LC50          | 96                 | Fish                          | 1300-mg/L      | 4             |
|                                                                                                                                                                                                                                                                                                                                                                                                          | EC50          | 48                 | Crustacea                     | >100mg/L       | 2             |
|                                                                                                                                                                                                                                                                                                                                                                                                          | EC50          | 96                 | Algae or other aquatic plants | >100mg/L       | 2             |
|                                                                                                                                                                                                                                                                                                                                                                                                          | NOEC          | 96                 | Algae or other aquatic plants | >=100mg/L      | 1             |
| water                                                                                                                                                                                                                                                                                                                                                                                                    | Endpoint      | Test Duration (hr) | Species                       | Value          | Source        |
|                                                                                                                                                                                                                                                                                                                                                                                                          | Not Available | Not Available      | Not Available                 | Not Available  | Not Available |
| <b>Legend:</b> Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data |               |                    |                               |                |               |

Harmful to aquatic organisms.

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

## Persistence and degradability

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

## Bioaccumulative potential

| Ingredient                        | Bioaccumulation      |
|-----------------------------------|----------------------|
| titanium dioxide                  | LOW (BCF = 10)       |
| diethylene glycol monobutyl ether | LOW (BCF = 0.46)     |
| water                             | LOW (LogKOW = -1.38) |

## Mobility in soil

| Ingredient                        | Mobility          |
|-----------------------------------|-------------------|
| titanium dioxide                  | LOW (KOC = 23.74) |
| diethylene glycol monobutyl ether | LOW (KOC = 10)    |
| water                             | LOW (KOC = 14.3)  |

## SECTION 13 Disposal considerations

## Waste treatment methods

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product / Packaging disposal | <ul style="list-style-type: none"> <li>Recycle wherever possible.</li> <li>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.</li> <li>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).</li> <li>Decontaminate empty containers.</li> </ul> |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 14 Transport information

## Labels Required

Continued...

|                         |                |
|-------------------------|----------------|
| <b>Marine Pollutant</b> | NO             |
| <b>HAZCHEM</b>          | 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

## SECTION 15 Regulatory information

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

**acrylic copolymer latex is found on the following regulatory lists**

Not Applicable

**titanium dioxide 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 Monographs

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)

**ammonium hydroxide 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)

**diethylene glycol monobutyl ether 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

Australian Inventory of Industrial Chemicals (AIIC)

**water is found on the following regulatory lists**

Australian Inventory of Industrial Chemicals (AIIC)

### National Inventory Status

| National Inventory                              | Status                                                                                                                                                                                                   |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Australia - AIIC / Australia Non-Industrial Use | No (acrylic copolymer latex)                                                                                                                                                                             |
| Canada - DSL                                    | No (acrylic copolymer latex)                                                                                                                                                                             |
| Canada - NDSL                                   | No (acrylic copolymer latex; ammonium hydroxide; diethylene glycol monobutyl ether; water)                                                                                                               |
| China - IECSC                                   | No (acrylic copolymer latex)                                                                                                                                                                             |
| Europe - EINEC / ELINCS / NLP                   | No (acrylic copolymer latex)                                                                                                                                                                             |
| Japan - ENCS                                    | No (acrylic copolymer latex)                                                                                                                                                                             |
| Korea - KECI                                    | No (acrylic copolymer latex)                                                                                                                                                                             |
| New Zealand - NZIoC                             | No (acrylic copolymer latex)                                                                                                                                                                             |
| Philippines - PICCS                             | No (acrylic copolymer latex)                                                                                                                                                                             |
| USA - TSCA                                      | No (acrylic copolymer latex)                                                                                                                                                                             |
| Taiwan - TCSI                                   | No (acrylic copolymer latex)                                                                                                                                                                             |
| Mexico - INSQ                                   | No (acrylic copolymer latex)                                                                                                                                                                             |
| Vietnam - NCI                                   | No (acrylic copolymer latex)                                                                                                                                                                             |
| Russia - ARIPS                                  | No (acrylic copolymer latex)                                                                                                                                                                             |
| <b>Legend:</b>                                  | Yes = All CAS declared ingredients are on the inventory<br>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

|                      |            |
|----------------------|------------|
| <b>Revision Date</b> | 14/12/2020 |
| <b>Initial Date</b>  | 21/10/2003 |

### SDS Version Summary

| Version | Issue Date | 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 | 14/12/2020 | Use, Name                                                                      |

### 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

Continued...

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  
OSF: Odour Safety Factor  
NOAEL :No Observed Adverse Effect Level  
LOAEL: Lowest Observed Adverse Effect Level  
TLV: Threshold Limit Value  
LOD: Limit Of Detection  
OTV: Odour Threshold Value  
BCF: BioConcentration Factors  
BEI: Biological Exposure Index

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