## **SAFETY DATA SHEET**



RE03 Radical Effects - Autumn

#### Section 1. Identification

Product identifier : RE03 Radical Effects - Autumn

Product type : Liquid.

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

**Identified uses** 

Use in coatings - Auxiliary materials

**Uses advised against** 

Not applicable.

Supplier's details

**Manufacturer** : Valspar b.v.

Zuiveringweg 89 8243 PE Lelystad The Netherlands

tel: +31 (0)320 292200 fax: +31 (0)320 292201

**Emergency telephone** 

number

: Call: +31 (0)320 292200 (during daytime)

Supplier : Valspar Automotive Australia Pty Limited

4 Hawke Street

Kincumber NSW 2251

AUSTRALIA
T: +612 4368 4054
F: +612 4368 4215
E: autoinfo@valspar.com
www.valsparrefinish.com.au

**Emergency telephone** 

number

: CHEMTREC +(61) 290372994 (Available 24hrs/7 days a week)

Poisons Information Centre: Australia 131 126

### Section 2. Hazard(s) identification

Classification of the substance or mixture

Skin Irrit. 2, H315 Eye Irrit. 2, H319

#### **GHS** label elements



Signal word : Warning

**Hazard statements**: Causes skin irritation.

Causes serious eye irritation.

**Precautionary statements** 

**Prevention**: Wear protective gloves. Wear eye or face protection. Wash thoroughly after

handling.

Response : Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with

plenty of water. IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage : Store in a well-ventilated place. Keep cool.

RE03 Radical Effects - Autumn

### Section 2. Hazard(s) identification

**Disposal** 

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label

elements

: Not applicable.

Other hazards which do not : None known. result in classification

### Section 3. Composition and ingredient information

: Mixture Substance/mixture Other means of identification

: Not available.

| Ingredient name        | % (w/w)   | CAS number |
|------------------------|-----------|------------|
| ,                      | ≥30 - ≤51 | 111-76-2   |
| 2-dimethylaminoethanol | <3        | 108-01-0   |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** Causes serious eye irritation.

Inhalation No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

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#### Section 4. First aid measures

: No known significant effects or critical hazards. Ingestion

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

Ingestion No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Firefighting measures

#### **Extinguishing media**

Suitable extinguishing

media

**Unsuitable extinguishing** 

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

: Do not use water jet.

Specific hazards arising from the chemical

: Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides metal oxide/oxides

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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### Section 6. Accidental release measures

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### **Environmental precautions**

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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### Section 8. Exposure controls and personal protection

#### **Control parameters**

#### Occupational exposure limits

| Ingredient name        | Exposure limits   |
|------------------------|---|
| 2-butoxyethanol        | Safe Work Australia (Australia, 4/2018). Absorbed through skin. STEL: 242 mg/m³ 15 minutes.   |
|                        | STEL: 50 ppm 15 minutes.<br>TWA: 96.9 mg/m³ 8 hours.<br>TWA: 20 ppm 8 hours.  |
| 2-dimethylaminoethanol | Safe Work Australia (Australia, 4/2018). STEL: 22 mg/m³ 15 minutes. STEL: 6 ppm 15 minutes. TWA: 7.4 mg/m³ 8 hours. TWA: 2 ppm 8 hours. |

## Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

## **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: chemical splash goggles.

## Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Recommended EN 374 butyl rubber >= 0.4 mm

< 1 hour (breakthrough time): Conditionally suitable materials for protective gloves; EN 374: Nitrile rubber - NBR (>= 0.35 mm). Only suitable as splash protection. Only suitable for brief exposure. In the event of contamination, change protective gloves immediately.

#### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Cotton or cotton/synthetic overalls or coveralls are normally suitable.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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### Section 8. Exposure controls and personal protection

**Respiratory protection** 

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: EN 14387 organic vapour filter (Type A)

### Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance** 

**Physical state** : Liquid.

Colour : Not available. Odour : Not available. **Odour threshold** : Not available. pН : Not applicable. Melting point/freezing point : Not available. **Boiling point, initial boiling** : >100°C (>212°F)

point, and boiling range

: Closed cup: 63°C (145.4°F)

**Evaporation rate** : Not available. : Not available. **Flammability** Lower and upper explosion : Not available. limit/flammability limit

Vapour pressure

**Flash point** 

|   | Vapou    | Vapour Pressure at 20°C |        | Vapour pressure at 5 |     | ire at 50°C |
|---|----------|-------------------------|--------|----------------------|-----|-------------|
| Ingredient name   | mm Hg    | kPa                     | Method | mm<br>Hg             | kPa | Method      |
| toluene   | 23.17    | 3.1                     |        |                      |     |             |
| 2-methylpropan-1-ol   | <12      | <1.6                    |        |                      |     |             |
| ethylbenzene  | 9.3      | 1.2                     |        |                      |     |             |
| xylene  | 6.7      | 0.89                    |        |                      |     |             |
| 2-dimethylaminoethanol  | 4.59     | 0.61                    |        |                      |     |             |
| 2-butoxyethanol   | 0.75     | 0.1                     |        |                      |     |             |
| polyphosphoric acids, esters with 2-oxepanone, polyethylene glycol monomethyl ether, tetrahydro-2H-pyran-2-one reaction product, compds. with 2-(dibutylamino)ethanol | <0.75006 | <0.1                    |        |                      |     |             |
| propane-1,2-diol  | 0.15     | 0.02                    |        |                      |     |             |

Relative vapour density : Not available.

**Relative density** : 1.211

: 1.211 g/cm<sup>3</sup> **Density** 

**Solubility** : Easily soluble in the following materials: cold water and hot water.

Solubility in water : Not available. Partition coefficient: n-: Not applicable.

**Auto-ignition temperature** 

octanol/water

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### Section 9. Physical and chemical properties and safety characteristics

| Ingredient name  | °C     | °F    | Method |
|--|--------|-------|--------|
| polyphosphoric acids, esters with<br>2-oxepanone, polyethylene glycol<br>monomethyl ether, tetrahydro-2H-<br>pyran-2-one reaction product, compds.<br>with 2-(dibutylamino)ethanol | >200   | >392  |        |
| 2-butoxyethanol  | 230    | 446   |        |
| 2-dimethylaminoethanol   | 230    | 446   |        |
| propane-1,2-diol   | 371    | 699.8 |        |
| 2-methylpropan-1-ol  | 415    | 779   |        |
| xylene   | 432    | 809.6 |        |
| ethylbenzene   | 432.22 | 810   |        |
| toluene  | 480    | 896   |        |

**Decomposition temperature** 

: Not available. Not available. **Viscosity** Flow time (ISO 2431) Not available.

**Particle characteristics** 

Median particle size : Not applicable.

### Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

**Chemical stability** : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials

: Reactive or incompatible with the following materials: oxidising materials

**Hazardous decomposition** products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name | Result                 | Species | Dose        | Exposure |
|-------------------------|------------------------|---------|-------------|----------|
| 2-butoxyethanol         | LD50 Dermal            | Rat     | >2000 mg/kg | -        |
|                         | LD50 Oral              | Rat     | 1300 mg/kg  | -        |
| 2-dimethylaminoethanol  | LC50 Inhalation Vapour | Rat     | 1641 ppm    | 4 hours  |
|                         | LD50 Dermal            | Rabbit  | 1220 mg/kg  | -        |
|                         | LD50 Oral              | Rat     | 2 g/kg      | -        |

**Irritation/Corrosion** 

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## Section 11. Toxicological information

| Product/ingredient name | Result                   | Species | Score | Exposure                   | Observation |
|-------------------------|--------------------------|---------|-------|----------------------------|-------------|
| 2-butoxyethanol         | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100<br>milligrams | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 100<br>milligrams          | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 500<br>milligrams          | -           |
| 2-dimethylaminoethanol  | Eyes - Severe irritant   | Rabbit  | -     | 5 microliters              | _           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 445<br>milligrams          | -           |

#### **Sensitisation**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on likely routes

of exposure

: Not available.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

# <u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u> <u>Short term exposure</u>

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## Section 11. Toxicological information

**Potential immediate** 

effects

Potential delayed effects

: Not available.

**Long term exposure** 

Potential immediate

: Not available.

effects

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

: No known significant effects or critical hazards. Carcinogenicity Mutagenicity : No known significant effects or critical hazards. Reproductive toxicity : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

| Product/ingredient name  | Oral (mg/<br>kg) | Dermal<br>(mg/kg)      | (gases)           | (vapours) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|--|------------------|------------------------|-------------------|-----------|--|
| RE03 Radical Effects - Autumn<br>2-butoxyethanol<br>2-dimethylaminoethanol |                  | 58239.5<br>N/A<br>1220 | N/A<br>N/A<br>N/A | 11        | N/A<br>N/A<br>N/A                            |

### Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name | Result                                   | Species   | Exposure             |
|-------------------------|--|---|----------------------|
| 2-butoxyethanol         | Acute EC50 911 mg/l                      | Algae - Pseudokrichneriella subcapitata               | 72 hours             |
|                         | Acute EC50 1550 mg/l                     | Daphnia - Daphnia magna                               | 48 hours             |
|                         | Acute LC50 1474 mg/l                     | Fish - Oncorhynchus mykiss                            | 96 hours             |
|                         | Chronic NOEC 100 mg/l                    | Daphnia - Daphnia magna                               | 21 days              |
|                         | Chronic NOEC >100 mg/l                   | Fish - Brachydanio rerio                              | 21 days              |
| 2-dimethylaminoethanol  | Acute EC50 35 mg/l                       | Algae   | 72 hours             |
| ,                       | Acute EC50 98 mg/l<br>Acute LC50 81 mg/l | Daphnia - Daphnia magna<br>Fish - Pimephales promelas | 48 hours<br>96 hours |

#### Persistence and degradability

| Product/ingredient name                   | Test              | Result  | Dose | Inoculum         |
|---|-------------------|---|------|------------------|
| 2-butoxyethanol<br>2-dimethylaminoethanol | -                 | 90.4 % - Readily - 28 days<br>100 % - Readily - 28 days | -    | -                |
| Product/ingredient name                   | Aquatic half-life | Photolys  | ie   | Biodegradability |
| 3   | riquatio nun ino  | i notorys   | 13   | Diodegradability |

#### **Bioaccumulative potential**

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### **Section 12. Ecological information**

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| 2-butoxyethanol         | 0.81   | -   | low       |
| 2-dimethylaminoethanol  | -0.55  | -   | low       |

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **Section 14. Transport information**

|                            | ADG            | ADR/RID        | IMDG           | IATA           |
|----------------------------|----------------|----------------|----------------|----------------|
| UN number                  | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name    | -              | -              | -              | -              |
| Transport hazard class(es) | -              | -              | -              | -              |
| Packing group              | -              | -              | -              | -              |
| Environmental hazards      | No.            | No.            | No.            | No.            |

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according

: Not available.

to IMO instruments

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### **Section 15. Regulatory information**

#### Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

| Ingredient name | Schedule   |
|-----------------|------------|
| tin dioxide     | Prohibited |

#### **International regulations**

#### **Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

#### **Montreal Protocol**

Not listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

#### **Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : Japan inventory (CSCL): At least one component is not listed.

Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.
Philippines : At least one component is not listed.
Republic of Korea : All components are listed or exempted.
Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : Not determined.

### Section 16. Any other relevant information

#### **History**

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**Key to abbreviations** : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

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### Section 16. Any other relevant information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

#### Procedure used to derive the classification

| Classification                                  | Justification         |
|---|-----------------------|
| FLAMMABLE LIQUIDS - Category 4                  | On basis of test data |
| SKIN CORROSION/IRRITATION - Category 2          | Calculation method    |
| SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A | Calculation method    |
| SKIN SENSITISATION - Category 1                 | Calculation method    |

References : Not available.

✓ Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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