# **SAFETY DATA SHEET**



Date of issue/Date of revision7 November 2021Version 6.05

| Section 1. Identification   |   |  |
|---|---|--|
| Product code  | : 00335633  |  |
| Product name  | : DIMETCOTE 9H ACTIVATOR  |  |
| Product type  | : Liquid.   |  |
| Relevant identified uses of the substance or mixture and uses advised against |   |  |
| Product use   | Coating.<br>Industrial applications, Used by spraying.  |  |
| Supplier's details  | : PPG Industries (Singapore) Pte. Ltd., No. 1 Tuas Basin Close, Singapore 638803.<br>Tel +65 68653737 |  |
| Emergency telephone<br>number (with hours of<br>operation)                    | : CHEMTREC +(65)-31581349 (CCN 17704)   |  |

# Section 2. Hazards identification

| Classification of the | : FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (oral) - Category 4   |
|-----------------------|--|
| substance or mixture  | SKIN CORROSION/IRRITATION - Category 1   |
|                       | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1   |
|                       | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract  |
|                       | irritation) - Category 3   |
|                       | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) -  |
|                       | Category 3   |
|                       | SPEČIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |

GHS label elements, including precautionary statements

Hazard pictograms : Signal word : Danger Product code 00335633

Product name DIMETCOTE 9H ACTIVATOR

### Section 2. Hazards identification

| Hazard statements          | <ul> <li>Flammable liquid and vapour.<br/>Harmful if swallowed.</li> <li>Causes severe skin burns and eye damage.<br/>May cause respiratory irritation.</li> <li>May cause drowsiness or dizziness.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul>  |
|----------------------------|---|
| Precautionary statements   |   |
| Prevention                 | : Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.  |
| Response                   | : Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor. IF<br>SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do<br>NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated<br>clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.<br>Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water<br>for several minutes. Remove contact lenses, if present and easy to do. Continue<br>rinsing. Immediately call a POISON CENTER or doctor. |
| Storage                    | : Store in a well-ventilated place. Keep container tightly closed. Keep cool.   |
| Disposal                   | : Dispose of contents and container in accordance with all local, regional, national and international regulations.   |
| Other hazards which do not | : <b>P</b> rolonged or repeated contact may dry skin and cause irritation.  |

result in classification

### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

### **CAS number/other identifiers**

| CAS number          | : Not applicable. |
|---------------------|-------------------|
| EC number           | : Mixture.        |
| Ingredient name     |                   |
| -methoxy-2-propanol |                   |

| Ingredient name          | %          | CAS number |
|--------------------------|------------|------------|
| ✓methoxy-2-propanol      | 50 - 100   | 107-98-2   |
| zinc chloride            | 10 - <20   | 7646-85-7  |
| butan-1-ol               | 10 - <20   | 71-36-3    |
| titanium tetrabutanolate | 5 - <10    | 5593-70-4  |
| 2-methoxypropanol        | 0.1 - <0.3 | 1589-47-5  |

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

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

SUB codes represent substances without registered CAS Numbers.

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|-----------|--------------|------------|
|           |              |            |

# Section 4. First aid measures

### Description of necessary first aid measures

| Eye contact  | <ul> <li>Check for and remove any contact lenses. Immediately flush eyes with running<br/>water for at least 15 minutes, keeping eyelids open. Seek immediate medical<br/>attention.</li> </ul>                            |
|--------------|--|
| Inhalation   | <ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is<br/>irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by<br/>trained personnel.</li> </ul> |
| Skin contact | <ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and<br/>water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>   |
| Ingestion    | <ul> <li>If swallowed, seek medical advice immediately and show the container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>  |

| Most important sympto  | ms/effects, acute and delayed   |  |
|--|---|--|
| Potential acute health   | <u>effects</u>  |  |
| Eye contact  | : Causes serious eye damage.  |  |
| Inhalation   | : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.   |  |
| Skin contact   | : Causes severe burns. Defatting to the skin.   |  |
| Ingestion  | : Harmful if swallowed. Can cause central nervous system (CNS) depression.  |  |
| Over-exposure signs/symptoms   |   |  |
| Eye contact  | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness  |  |
| Inhalation   | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo<br>unconsciousness |  |
| Skin contact   | : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>dryness<br>cracking<br>blistering may occur   |  |
| Ingestion  | : Adverse symptoms may include the following: stomach pains   |  |
| Indication of immediate medical attention and special treatment needed, if necessary |   |  |
| Notes to physician   | : Treat symptomatically. Contact poison treatment specialist immediately if large<br>quantities have been ingested or inhaled.  |  |
| Specific treatments  | : No specific treatment.  |  |

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|-----------|--------------|------------|
|-----------|--------------|------------|

### Section 4. First aid measures

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it<br/>is suspected that fumes are still present, the rescuer should wear an appropriate<br/>mask or self-contained breathing apparatus. It may be dangerous to the person<br/>providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing<br/>thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Firefighting measures

| Extinguishing media                            |  |
|--|--|
| Suitable extinguishing media                   | : Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.   |
| Unsuitable extinguishing media                 | : Do not use water jet.  |
| Specific hazards arising from the chemical     | : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard.<br>In a fire or if heated, a pressure increase will occur and the container may burst, with<br>the risk of a subsequent explosion. This material is toxic to aquatic life with long<br>lasting effects. Fire water contaminated with this material must be contained and<br>prevented from being discharged to any waterway, sewer or drain. |
| Hazardous thermal decomposition products       | : Decomposition products may include the following materials:<br>carbon oxides<br>halogenated compounds<br>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 | <ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained<br/>breathing apparatus (SCBA) with a full face-piece operated in positive pressure<br/>mode.</li> </ul>  |

### Section 6. Accidental release measures

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

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

### Section 6. Accidental release measures

**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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

| 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 non-combustible, 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 spill 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  | Even the event of the environment of the event of the even of the event of the event of the event of the event of the even |
|--|--|
| 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,<br>including any<br>incompatibilities | : Do not store above the following temperature: 50°C (122°F). Store in accordance<br>with local regulations. Store in a segregated and approved area. Store in original<br>container protected from direct sunlight in a dry, cool and well-ventilated area, away<br>from incompatible materials (see Section 10) and food and drink. Store locked up.<br>Eliminate all ignition sources. Separate from oxidising materials. Keep container<br>tightly closed and sealed until ready for use. Containers that have been opened<br>must be carefully resealed and kept upright to prevent leakage. Do not store in  |

### Section 7. Handling and storage

unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

| Ingredient name                     |   | Exposure limits   |
|-------------------------------------|---|---|
| rethoxy-2-propanol                  |   | Workplace Safety and Health Act<br>(Singapore, 2/2006).<br>PEL (short term): 553 mg/m <sup>3</sup> 15 minutes.<br>PEL (short term): 150 ppm 15 minutes.<br>PEL (long term): 369 mg/m <sup>3</sup> 8 hours.<br>PEL (long term): 100 ppm 8 hours. |
| zinc chloride                       |   | Workplace Safety and Health Act<br>(Singapore, 2/2006).<br>PEL (short term): 2 mg/m <sup>3</sup> 15 minutes.<br>Form: Fume<br>PEL (long term): 1 mg/m <sup>3</sup> 8 hours. Form:<br>Fume   |
| butan-1-ol                          |   | Workplace Safety and Health Act<br>(Singapore, 2/2006).<br>PEL (short term): 152 mg/m <sup>3</sup> 15 minutes.<br>PEL (short term): 50 ppm 15 minutes.  |
| Recommended monitoring procedures   | of the ventilation or other control mean<br>protective equipment. Reference sho   | may be required to determine the effectiveness<br>asures and/or the necessity to use respiratory<br>build be made to appropriate monitoring<br>dance documents for methods for the  |
| Appropriate engineering<br>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<br>controls  | : Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process<br>equipment will be necessary to reduce emissions to acceptable levels.   |   |
| Individual protection measure       | <u>95</u>   |   |
| Hygiene measures                    | : Wash hands, forearms and face thoroughly after handling chemical products, before<br>eating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing.<br>Wash contaminated clothing before reusing. Ensure that eyewash stations and<br>safety showers are close to the workstation location. |   |
| Eye/face protection                 | : Chemical splash goggles and face sh   | nield.  |
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### Section 8. Exposure controls/personal protection

| Skin protection        |   |
|------------------------|---|
| Hand protection        | : Chemical-resistant, impervious gloves complying with an approved standard should<br>be worn at all times when handling chemical products if a risk assessment indicates<br>this is necessary. Considering the parameters specified by the glove manufacturer,<br>check during use that the gloves are still retaining their protective properties. It<br>should be noted that the time to breakthrough for any glove material may be<br>different for different glove manufacturers. In the case of mixtures, consisting of<br>several substances, the protection time of the gloves cannot be accurately<br>estimated. |
| Body protection        | : Personal protective equipment for the body should be selected based on the task<br>being performed and the risks involved and should be approved by a specialist<br>before handling this product. When there is a risk of ignition from static electricity,<br>wear anti-static protective clothing. For the greatest protection from static<br>discharges, clothing should include anti-static overalls, boots and gloves.   |
| Other skin protection  | <ul> <li>Appropriate footwear and any additional skin protection measures should be<br/>selected based on the task being performed and the risks involved and should be<br/>approved by a specialist before handling this product.</li> </ul>   |
| Respiratory protection | : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.  |

# Section 9. Physical and chemical properties

| <u>Appearance</u>         |  |
|---------------------------|--|
| Physical state            | : Liquid.  |
| Odour                     | : Characteristic.  |
| рН                        | insoluble in water.  |
| Boiling point             | : >37.78°C (>100°F)  |
| Flash point               | : Closed cup: 32.22°C (90°F)   |
| Evaporation rate          | : 0.67 (butyl acetate = 1)   |
| Flammability (solid, gas) | : liquid   |
| Vapour pressure           | : 1.4 kPa (10.7 mm Hg) (at 20°C)   |
| Vapour density            | : Highest known value: 3.11 (Air = 1) (1-methoxy-2-propanol). Weighted average: 3.03 (Air = 1) |
| Relative density          | : 1  |
| Solubility                | : Insoluble in the following materials: cold water.  |
| Auto-ignition temperature | : Lowest known value: 270°C (518°F) (1-methoxy-2-propanol).                                    |
| Viscosity                 | : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)  |

# Section 10. Stability and reactivity

| Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.  |
|------------------------------------|---|
| 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                | : When exposed to high temperatures may produce hazardous decomposition products.   |
| Incompatible materials             | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.              |
| Hazardous decomposition products   | : Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides |

# Section 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name  | Result                          | Species | Dose                    | Exposure |
|--------------------------|---------------------------------|---------|-------------------------|----------|
| -methoxy-2-propanol      | LC50 Inhalation Vapour          | Rat     | >7000 ppm               | 6 hours  |
|                          | LD50 Dermal                     | Rabbit  | 13 g/kg                 | -        |
|                          | LD50 Oral                       | Rat     | 5.2 g/kg                | -        |
| zinc chloride            | LD50 Oral                       | Rat     | 0.35 g/kg               | -        |
| butan-1-ol               | LC50 Inhalation Vapour          | Rat     | 24000 mg/m <sup>3</sup> | 4 hours  |
|                          | LC50 Inhalation Vapour          | Rat     | 8000 ppm                | 4 hours  |
|                          | LD50 Dermal                     | Rabbit  | 3400 mg/kg              | -        |
|                          | LD50 Oral                       | Rat     | 790 mg/kg               | -        |
| titanium tetrabutanolate | LC50 Inhalation Dusts and mists | Rat     | >11 mg/l                | 4 hours  |
|                          | LD50 Oral                       | Rat     | 3122 mg/kg              | -        |
| 2-methoxypropanol        | LC50 Inhalation Vapour          | Rat     | 15000 ppm               | 4 hours  |
|                          | LD50 Dermal                     | Rabbit  | 5660 mg/kg              | -        |
|                          | LD50 Oral                       | Rat     | 5.3 g/kg                | -        |

| oonolasion/oanniary       |  |
|---------------------------|--|
| Irritation/Corrosion      |  |
| <b>Conclusion/Summary</b> |  |
| Skin                      | : There are no data available on the mixture itself. |
| Eyes                      | : There are no data available on the mixture itself. |
| Respiratory               | : There are no data available on the mixture itself. |
| Sensitisation             |  |
| <b>Conclusion/Summary</b> |  |
| Skin                      | : There are no data available on the mixture itself. |
| Respiratory               | : There are no data available on the mixture itself. |
| <b>Mutagenicity</b>       |  |

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|----|---------|--------------|----------|
|----|---------|--------------|----------|

### Section 11. Toxicological information

| Conclusion/Summary                               | : There are no data available on the mixture itself. |  |
|--|--|--|
| <b>Carcinogenicity</b>                           |  |  |
| <b>Conclusion/Summary</b>                        | : There are no data available on the mixture itself. |  |
| Reproductive toxicity                            |  |  |
| <b>Conclusion/Summary</b>                        | : There are no data available on the mixture itself. |  |
| <b>Teratogenicity</b>                            |  |  |
| <b>Conclusion/Summary</b>                        | : There are no data available on the mixture itself. |  |
| Specific target organ toxicity (single exposure) |  |  |

| Name                               | Category   | Route of exposure | Target organs                |
|------------------------------------|------------|-------------------|------------------------------|
| <mark>≸</mark> -methoxy-2-propanol | Category 3 | -                 | Narcotic effects             |
| zinc chloride                      | Category 3 | -                 | Respiratory tract irritation |
| butan-1-ol                         | Category 3 | -                 | Respiratory tract irritation |
|                                    | Category 3 |                   | Narcotic effects             |
| 2-methoxypropanol                  | Category 3 | -                 | Respiratory tract irritation |

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

| Name          |            | Route of<br>exposure | Target organs |
|---------------|------------|----------------------|---------------|
| zínc chloride | Category 2 | -                    | -             |

#### Aspiration hazard

Not available.

| Information on likely routes of exposure | : Not available.  |
|--|---|
| Potential acute health effects           | <u>&gt;</u>   |
| Eye contact                              | : Causes serious eye damage.  |
| Inhalation                               | : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. |
| Skin contact                             | : Causes severe burns. Defatting to the skin.   |
| Ingestion                                | : Harmful if swallowed. Can cause central nervous system (CNS) depression.  |
| Symptoms related to the phy              | sical, chemical and toxicological characteristics   |

Eye contact : Adverse symptoms may include the following: pain watering redness

# Section 11. Toxicological information

|              | 5   |
|--------------|---|
| Inhalation   | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo<br>unconsciousness |
| Skin contact | : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>dryness<br>cracking<br>blistering may occur   |
| Ingestion    | : Adverse symptoms may include the following: stomach pains   |

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

| Short term exposure            |   |
|--------------------------------|---|
| Potential immediate effects    | : Not available.  |
| Potential delayed effects      | : Not available.  |
| Long term exposure             |   |
| Potential immediate<br>effects | : Not available.  |
| Potential delayed effects      | : Not available.  |
| Potential chronic health eff   | <u>ects</u>   |
| General                        | : May cause damage to organs through prolonged or repeated exposure. Prolonged<br>or repeated contact can defat the skin and lead to irritation, cracking and/or<br>dermatitis. |
| Carcinogenicity                | : No known significant effects or critical hazards.   |
| Mutagenicity                   | : No known significant effects or critical hazards.   |
| Reproductive toxicity          | : No known significant effects or critical hazards.   |

#### Numerical measures of toxicity

2

#### Acute toxicity estimates

| Route | ATE value     |
|-------|---------------|
| Øral  | 1949.91 mg/kg |

#### Other information

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### Section 11. Toxicological information

Frolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

# Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name | Result                               | Species                      | Exposure |
|-------------------------|--------------------------------------|------------------------------|----------|
| ✓-methoxy-2-propanol    | Acute LC50 23300 mg/l                | Daphnia                      | 48 hours |
|                         | Acute LC50 >4500 mg/l Fresh water    | Fish                         | 96 hours |
| zinc chloride           | Acute EC50 5.64 mg/l Fresh water     | Aquatic plants - Lemna minor | 4 days   |
|                         | Acute EC50 0.2 mg/l                  | Crustaceans                  | 48 hours |
|                         | Acute LC50 0.4 to 2.2 mg/l           | Fish                         | 96 hours |
| butan-1-ol              | Acute LC50 1376 mg/l                 | Fish                         | 96 hours |
| Conclusion/Summary      | : There are no data available on the | mixture itself.              | 11       |

#### Persistence/degradability

Not available.

**Conclusion/Summary** : There are no data available on the mixture itself.

#### **Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| rethoxy-2-propanol      | <1     | -   | low       |
| butan-1-ol              | 1      | -   | low       |
| 2-methoxypropanol       | -0.49  | -   | low       |

#### **Mobility in soil**

| Soil/water partition | : Not available. |
|----------------------|------------------|
| coefficient (Koc)    |                  |

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.<br>Disposal of this product, solutions and any by-products should at all times comply<br>with the requirements of environmental protection and waste disposal legislation<br>and any regional local authority requirements. Dispose of surplus and non-<br>recyclable products via a licensed waste disposal contractor. Waste should not be<br>disposed of untreated to the sewer unless fully compliant with the requirements of<br>all authorities with jurisdiction. Waste packaging should be recycled. Incineration or<br>landfill should only be considered when recycling is not feasible. This material and<br>its container must be disposed of in a safe way. Care should be taken when<br>handling emptied containers that have not been cleaned or rinsed out. Empty |
|------------------|---|
|                  | handling emptied containers that have not been cleaned or rinsed out. Empty   |

Section 13. Disposal considerations

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

|                             | UN   | IMDG                           | ΙΑΤΑ   |
|-----------------------------|--|--------------------------------|--|
| UN number                   | UN3469   | UN3469                         | UN3469   |
| UN proper<br>shipping name  | PAINT, FLAMMABLE,<br>CORROSIVE   | PAINT, FLAMMABLE,<br>CORROSIVE | PAINT, FLAMMABLE,<br>CORROSIVE   |
| Transport hazard class(es)  | 3 (8)  | 3 (8)                          | 3 (8)  |
| Packing group               |  | II                             | III  |
| Environmental<br>hazards    | Yes. The environmentally<br>hazardous substance mark is<br>not required. | Yes.                           | Yes. The environmentally<br>hazardous substance mark is<br>not required. |
| Marine pollutant substances | Not applicable.  | (zinc chloride)                | Not applicable.  |

#### Additional information

| UN   | : None identified.   |
|------|--|
| IMDG | : The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.        |
| ΙΑΤΑ | : The environmentally hazardous substance mark may appear if required by other transportation regulations. |

### 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 applicable. to IMO instruments

### Section 15. Regulatory information

Singapore - hazardous chemicals under government control

None.

### **International regulations**

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

|--|--|

### Section 15. Regulatory information

Not listed.

### Section 16. Other information

| <u>History</u>                 |   |
|--------------------------------|---|
| Date of issue/Date of revision | : 7 November 2021   |
| Date of previous issue         | : 2/24/2020   |
| Version                        | : 6.05  |
| Prepared by                    | : EHS   |
| Key to abbreviations           | <ul> <li>ATE = Acute Toxicity Estimate<br/>BCF = Bioconcentration Factor<br/>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br/>IATA = International Air Transport Association<br/>IBC = International Air Transport Association<br/>IBC = International Maritime Dangerous Goods<br/>LogPow = logarithm of the octanol/water partition coefficient<br/>MARPOL = International Convention for the Prevention of Pollution From Ships,<br/>1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br/>UN = United Nations</li> </ul> |

**V** Indicates information that has changed from previously issued version.

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