

## SAFETY DATA SHEET

FR2-55 SEMI-GLOSS BASE GREY CLOUD AIC 2.8

In accordance with the Standard for Classification and Labeling of Chemical Substance and Safety Data Sheet,  
Article 10 Paragraph 1

### Section 1. Chemical product and company identification

**A. Product name** : FR2-55 SEMI-GLOSS BASE GREY CLOUD AIC 2.8  
**SDS code** : 55980208B

**B. Relevant identified uses of the substance or mixture and uses advised against**

| Identified uses                                   |
|---|
| Waterborne paint. Professional use Industrial use |
| Uses advised against                              |
| All other uses                                    |

**Product use** : Waterborne coating for interior use.

**C. Supplier's details**

MAPAERO SAS  
10, Avenue de la Rijole CS30098  
09103 PAMIERS Cedex  
France

**e-mail address of person responsible for this SDS** : PSRA\_PAMIERS@akzonobel.com

**Emergency telephone number (with hours of operation)** : +33 (0)5 34 01 34 01  
+33 (0)5 61 60 23 30

### Section 2. Hazards identification

**A. Hazard classification** : CARCINOGENICITY - Category 2  
This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

**B. GHS label elements, including precautionary statements**

**Symbol** :



**Signal word** : Warning

**Hazard statements** : H351 - Suspected of causing cancer.

**Precautionary statements**

**Prevention** : P201 - Obtain special instructions before use.  
P280 - Wear protective gloves, protective clothing and eye or face protection.

## Section 2. Hazards identification

- Response** : P308 + P313 - IF exposed or concerned: Get medical advice or attention.
- Storage** : Not applicable.
- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

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

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

| Ingredient name                          | Identifiers     | %         |
|--|-----------------|-----------|
| Titanium dioxide                         | CAS: 13463-67-7 | ≥20 - <25 |
| silicon dioxide                          | CAS: 7631-86-9  | <10       |
| Talc , not containing asbestiform fibres | CAS: 14807-96-6 | <10       |
| aluminium hydroxide                      | CAS: 21645-51-2 | ≥1 - <5   |
| 2-butoxyethanol                          | CAS: 111-76-2   | ≥0.1 - <5 |
| C(M)IT/MIT(3:1)                          | CAS: 55965-84-9 | <10       |
| ammonia, anhydrous                       | CAS: 7664-41-7  | <1        |

**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.**

## Section 4. First aid measures

- A. 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.
- B. Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- C. 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 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.
- D. Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. 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.
- E. Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

**Date of issue/Date of revision** : 21-10-2022

**Version** : 1.03

**Date of previous issue** : 6-10-2022

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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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### A. Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

### B. Specific hazards arising from the chemical

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
halogenated compounds  
metal oxide/oxides

### C. Special protective equipment for fire-fighters

**Special precautions 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.  
: 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.

## Section 6. Accidental release measures

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

: 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

### B. Environmental precautions

: Avoid dispersal of spilled 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).

### C. Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. 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. Approach 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 spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### A. Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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.

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

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### A. Control parameters

#### Occupational exposure limits

| Ingredient name    | Exposure limits  |
|--------------------|--|
| Titanium dioxide   | <b>Ministry of Employment and Labor (Republic of Korea, 1/2020).</b><br>TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust with less than 1% of free SiO <sub>2</sub> |
| 2-butoxyethanol    | <b>Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin.</b><br>TWA: 20 ppm 8 hours.  |
| C(M)IT/MIT(3:1)    | <b>Ministry of Employment and Labor (Republic of Korea, 1/2020).</b><br>TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: inhalable fraction                                   |
| ammonia, anhydrous | <b>Ministry of Employment and Labor (Republic of Korea, 1/2020).</b><br>STEL: 35 ppm 15 minutes.<br>TWA: 25 ppm 8 hours.   |

**B. Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**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.

### C. Personal protective equipment

## Section 8. Exposure controls/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.
- Eye 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: safety glasses with side-shields.
- 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.
- 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.
- 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 9. Physical and chemical properties

- A. Appearance**
- Physical state** : Liquid.
- Color** : Gray.
- B. Odor** : Characteristic.
- C. Odor threshold** : Not available.
- D. pH** : 8
- E. Melting/freezing point** : Not available.
- F. Boiling point/boiling range** : Not available.
- G. Flash point** : Closed cup: 105°C (221°F)
- Fire point** : Not available.
- H. Evaporation rate** : Not available.
- I. Flammability (solid, gas)** : Not available.
- J. Lower and upper explosive (flammable) limits** : Not available.
- K. Vapor pressure** : Not available.
- L. Solubility** : Easily soluble in the following materials: cold water.
- Solubility in water** : Not available.
- M. Vapor density** : Highest known value: (Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether).
- N. Density** : 1.465 g/cm<sup>3</sup>
- O. Partition coefficient: n-octanol/water** : Not available.
- P. Auto-ignition temperature** : Not available.

## Section 9. Physical and chemical properties

- Q. Decomposition temperature** : Not available.
- R. Viscosity** : Kinematic (room temperature): 3.96 cm<sup>2</sup>/s (396 cSt)  
Kinematic (40°C (104°F)): 2.01 cm<sup>2</sup>/s (201 cSt)
- Flow time (ISO 2431)** : Not available.
- S. Molecular weight** : Not applicable.

## Section 10. Stability and reactivity

- A. Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- B. Conditions to avoid** : No specific data.
- C. Incompatible materials** : No specific data.
- D. Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

- A. Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Skin contact** : No specific data.
- Eye contact** : No specific data.

### **B. Health hazards**

#### Acute toxicity

| Product/ingredient name | Result                | Species    | Dose                   | Exposure |
|-------------------------|-----------------------|------------|------------------------|----------|
| 2-butoxyethanol         | LC50 Inhalation Gas.  | Mouse      | 700 ppm                | 7 hours  |
|                         | LC50 Inhalation Gas.  | Rat        | 450 ppm                | 4 hours  |
|                         | LC50 Inhalation Vapor | Mouse      | 3380 mg/m <sup>3</sup> | 7 hours  |
|                         | LC50 Inhalation Vapor | Rat        | 2900 mg/m <sup>3</sup> | 7 hours  |
|                         | LD50 Dermal           | Guinea pig | 230 uL/kg              | -        |
|                         | LD50 Dermal           | Rabbit     | 220 mg/kg              | -        |
|                         | LD50 Intraperitoneal  | Mouse      | 536 mg/kg              | -        |
|                         | LD50 Intraperitoneal  | Rabbit     | 220 mg/kg              | -        |
|                         | LD50 Intraperitoneal  | Rat        | 220 mg/kg              | -        |
|                         | LD50 Intravenous      | Mouse      | 1130 mg/kg             | -        |
|                         | LD50 Intravenous      | Rabbit     | 252 mg/kg              | -        |
|                         | LD50 Intravenous      | Rat        | 307 mg/kg              | -        |
|                         | LD50 Oral             | Guinea pig | 1200 mg/kg             | -        |
|                         | LD50 Oral             | Mouse      | 1230 mg/kg             | -        |

## Section 11. Toxicological information

|                       |                                   |                         |                        |            |
|-----------------------|-----------------------------------|-------------------------|------------------------|------------|
| ammonia, anhydrous    | LD50 Oral                         | Mouse                   | 1167 mg/kg             | -          |
|                       | LD50 Oral                         | Rabbit                  | 300 mg/kg              | -          |
|                       | LD50 Oral                         | Rabbit                  | 320 mg/kg              | -          |
|                       | LD50 Oral                         | Rat                     | 917 mg/kg              | -          |
|                       | LD50 Oral                         | Rat                     | 250 mg/kg              | -          |
|                       | LD50 Route of exposure unreported | Mouse                   | 1050 mg/kg             | -          |
|                       | LD50 Route of exposure unreported | Rat                     | 917 mg/kg              | -          |
|                       | LC50 Inhalation Gas.              | Mouse                   | 4230 ppm               | 1 hours    |
|                       | LC50 Inhalation Gas.              | Mouse                   | 4500 ppm               | 1 hours    |
|                       | LC50 Inhalation Gas.              | Mouse                   | 21430 ppm              | 30 minutes |
|                       | LC50 Inhalation Gas.              | Rat                     | 9500 ppm               | 1 hours    |
|                       | LC50 Inhalation Gas.              | Rat                     | 17401 ppm              | 15 minutes |
|                       | LC50 Inhalation Gas.              | Rat                     | 2000 ppm               | 4 hours    |
|                       | LC50 Inhalation Vapor             | Mouse                   | 4600 mg/m <sup>3</sup> | 2 hours    |
|                       | LC50 Inhalation Vapor             | Rabbit                  | 7 g/m <sup>3</sup>     | 1 hours    |
|                       | LC50 Inhalation Vapor             | Rat                     | 7040 mg/m <sup>3</sup> | 30 minutes |
| LC50 Inhalation Vapor | Rat                               | 4673 mg/kg              | 4 hours                |            |
| LC50 Inhalation Vapor | Rat                               | 4673 mg/kg              | 4 hours                |            |
| LC50 Inhalation Vapor | Rat                               | 18600 mg/m <sup>3</sup> | 5 minutes              |            |

### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure        | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| silicon dioxide         | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 25 mg  | -           |
| 2-butoxyethanol         | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 mg | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 100 mg          | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 500 mg          | -           |

### Sensitization

Not available.

### CMR - ISHA Article 42 Occupational Exposure Limits

| Product/ingredient name | Identifiers     | Classification               |
|-------------------------|-----------------|------------------------------|
| Titanium dioxide        | CAS: 13463-67-7 | CARCINOGENICITY - Category 2 |
| 2-butoxyethanol         | CAS: 111-76-2   | CARCINOGENICITY - Category 2 |

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Classification

| Product/ingredient name                  | OSHA | IARC | NTP | ACGIH |
|--|------|------|-----|-------|
| Titanium dioxide                         | -    | 2B   | -   | A4    |
| silicon dioxide                          | -    | 3    | -   | -     |
| Talc , not containing asbestiform fibres | -    | 3    | -   | A4    |
| aluminium hydroxide                      | -    | -    | -   | A4    |
| 2-butoxyethanol                          | -    | 3    | -   | A3    |

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Date of issue/Date of revision : 21-10-2022

Version : 1.03

Date of previous issue : 6-10-2022

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**AkzoNobel**

## Section 11. Toxicological information

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Potential chronic health effects

#### Chronic toxicity

Not available.

- General** : No known significant effects or critical hazards.
- Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

## Section 12. Ecological information

### A. Ecotoxicity

| Product/ingredient name | Result                                | Species  | Exposure |
|-------------------------|---------------------------------------|--|----------|
| Titanium dioxide        | Acute EC50 19.3 mg/l Fresh water      | Daphnia - Daphnia magna                          | 48 hours |
|                         | Acute EC50 27.8 mg/l Fresh water      | Daphnia - Daphnia magna                          | 48 hours |
|                         | Acute EC50 35.306 mg/l Fresh water    | Daphnia - Daphnia magna - Neonate                | 48 hours |
|                         | Acute LC50 3 mg/l Fresh water         | Crustaceans - Ceriodaphnia dubia - Neonate       | 48 hours |
|                         | Acute LC50 13.4 mg/l Fresh water      | Crustaceans - Ceriodaphnia dubia - Neonate       | 48 hours |
|                         | Acute LC50 11 mg/l Fresh water        | Crustaceans - Ceriodaphnia dubia - Neonate       | 48 hours |
|                         | Acute LC50 3.6 mg/l Fresh water       | Crustaceans - Ceriodaphnia dubia - Neonate       | 48 hours |
|                         | Acute LC50 15.9 mg/l Fresh water      | Crustaceans - Ceriodaphnia dubia - Neonate       | 48 hours |
| 2-butoxyethanol         | Acute LC50 6.5 mg/l Fresh water       | Daphnia - Daphnia pulex - Neonate                | 48 hours |
|                         | Acute LC50 13 mg/l Fresh water        | Daphnia - Daphnia pulex - Neonate                | 48 hours |
|                         | Acute LC50 >1000 mg/l Fresh water     | Fish - Pimephales promelas                       | 96 hours |
|                         | Acute LC50 >1000000 µg/l Marine water | Fish - Fundulus heteroclitus                     | 96 hours |
| ammonia, anhydrous      | Acute EC50 >1000 mg/l Fresh water     | Daphnia - Daphnia magna                          | 48 hours |
|                         | Acute LC50 800000 µg/l Marine water   | Crustaceans - Crangon crangon                    | 48 hours |
|                         | Acute LC50 1490000 µg/l Fresh water   | Fish - Lepomis macrochirus                       | 96 hours |
|                         | Acute LC50 1250000 µg/l Marine water  | Fish - Menidia beryllina                         | 96 hours |
| ammonia, anhydrous      | Acute EC50 29.2 mg/l Marine water     | Algae - Ulva fasciata - Zoea                     | 96 hours |
|                         | Acute LC50 2500 µg/l Fresh water      | Crustaceans - Asellus aquaticus                  | 48 hours |
|                         | Acute LC50 4980 µg/l Marine water     | Crustaceans - Penaeus japonicus - Nauplii        | 48 hours |
|                         | Acute LC50 5210 µg/l Marine water     | Crustaceans - Fenneropenaeus penicillatus - Zoea | 48 hours |
|                         | Acute LC50 2080 µg/l Fresh water      | Crustaceans - Gammarus pulex                     | 48 hours |



## Section 12. Ecological information

|                                      |   |          |
|--------------------------------------|---|----------|
| Acute LC50 2710 µg/l Fresh water     | Crustaceans - Ceriodaphnia reticulata           | 48 hours |
| Acute LC50 0.53 ppm Fresh water      | Daphnia - Daphnia magna                         | 48 hours |
| Acute LC50 25400 µg/l Fresh water    | Daphnia - Daphnia magna                         | 48 hours |
| Acute LC50 4180 µg/l Fresh water     | Daphnia - Daphnia magna                         | 48 hours |
| Acute LC50 4130 µg/l Fresh water     | Daphnia - Daphnia pulex                         | 48 hours |
| Acute LC50 300 µg/l Fresh water      | Fish - Hypophthalmichthys nobilis               | 96 hours |
| Acute LC50 450 µg/l Fresh water      | Fish - Oncorhynchus tshawytscha - Underyearling | 96 hours |
| Acute LC50 380 µg/l Fresh water      | Fish - Hypophthalmichthys molitrix - Fingerling | 96 hours |
| Acute LC50 660 µg/l Fresh water      | Fish - Cyprinus carpio                          | 96 hours |
| Acute LC50 440 µg/l Fresh water      | Fish - Cyprinus carpio                          | 96 hours |
| Chronic NOEC 550 µg/l Fresh water    | Fish - Rutilus rutilus - Embryo                 | 31 days  |
| Chronic NOEC 0.204 mg/l Marine water | Fish - Dicentrarchus labrax                     | 62 days  |

### B. Persistence and degradability

Not available.

### C. Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| 2-butoxyethanol         | 0.81               | -   | low       |

### D. Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

E. Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

- A. Disposal methods** : The generation of waste should be avoided or minimized 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 non-recyclable 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.
- B. Disposal precautions** : 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

## Section 14. Transport information

|                                      | UN             | IMDG           | IATA           |
|--------------------------------------|----------------|----------------|----------------|
| <b>A. UN number</b>                  | Not regulated. | Not regulated. | Not regulated. |
| <b>B. UN proper shipping name</b>    | -              | -              | -              |
| <b>C. Transport hazard class(es)</b> | -              | -              | -              |
| <b>D. Packing group</b>              | -              | -              | -              |
| <b>E. Environmental hazards</b>      | No.            | No.            | No.            |

**F. 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 to IMO instruments** : Not available.

## Section 15. Regulatory information

### A. Regulation according to ISHA

**ISHA article 117 (Harmful substances prohibited from manufacture)** : None of the components are listed.

**ISHA article 118 (Harmful substances requiring permission)** : None of the components are listed.

**Article 2 of Youth Protection Act on Substances Hazardous to Youth** : Not applicable.

### Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

titanium dioxide  
2-butoxyethanol  
C(M)IT/MIT(3:1)  
ammonia, anhydrous

**ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)** : The following components are listed: ammonia

**ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)** : The following components are listed: titanium dioxide, aluminum and its compounds, talc; soapstone, silica

## Section 15. Regulatory information

**ISHA Enforcement Regs** : The following components are listed: Aluminum and its compounds

**Annex 22 (Harmful Factors Subject to Special Health Check-up)**

**Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)** : The following components are listed: titanium dioxide, aluminum and its compounds

### B. Regulation according to Chemicals Control Act

**CCA Article 11 (TRI)** : The following components are listed: Aluminium and its compounds

**CCA Article 18 Prohibited (K-Reach Article 27)** : None of the components are listed.

**CCA Article 19 Subject to authorization (K-Reach Article 25)**

: None of the components are listed.

**CCA Article 20 Toxic Chemicals (K-Reach Article 20)**

: Not applicable

**CCA Article 20 Restricted (K-Reach Article 27)**

: None of the components are listed.

**CCA Article 39 (Accident Precaution Chemicals)**

: None of the components are listed.

**Existing Chemical Substances Subject to Registration**

: The following components are listed: Quartz, 5-Chloro-2-methyl-3(2H)-isothiazolone, mixt. With 2-methyl-3(2H)-isothiazolone, Trizinc bis(orthophosphate), Ammonia

### C. **Dangerous Materials Safety Management Act**

: **Class:** Specified flammables

**Item:** Combustible liquid

**Threshold:** 2 m<sup>3</sup>

**Danger category:** Not applicable

**Signal word:** Not applicable

### D. **Wastes regulation**

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

### E. Regulation according to other foreign laws

#### 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.

## Section 16. Other information

- A. References** : Not available.
- B. Date of issue/Date of revision** : 21 October 2022
- C. Version** : 1.03
- Unique ID** :
- Date of printing** : **31 October 2022**

**D. Other**

▣ Indicates information that has changed from previously issued version.

- Key to abbreviations** :
- 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
  - 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
  - UN = United Nations

**Notice to reader**

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