# SAFETY DATA SHEET



#### according to Workplace Safety and Health Regulations Singapore

Flex+bond Presspack (grey-white-black)

## Section 1. Identification

| Product identifier | : Flex+bond Presspack (grey-white-black) |
|--------------------|--|
| Product code       | : 133510                                 |

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

Adhesives-Sealants Elasticizer

| Supplier's details                                   | : WEICON GmbH & Co. KG<br>Königsberger Str. 255<br>48157 Münster<br>Germany<br>Phone: +49 251 93220<br>Fax: +49(0)251 / 9322 - 244<br>Internet: www.weicon.de                          |
|--|--|
| e-mail address of person<br>responsible for this SDS | : msds@weicon.de   |
| Emergency telephone<br>number                        | : EMERGENCY CONTACT – UK, UAE, South Africa (24h): Tel: ++44 1865 407333<br>(English)<br>TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44<br>1865 407333 (English) |

# Section 2. Hazards identification

| Classification of the | : AEROSOLS - Category 3 |
|-----------------------|-------------------------|
| substance or mixture  |                         |

#### GHS label elements, including precautionary statements

| Signal word                | ning  |                      |
|----------------------------|---|----------------------|
| Hazard statements          | 9 - Pressurized container: may burst if heated.   |                      |
| Precautionary statements   |   |                      |
| Prevention                 | ) - Keep away from heat, hot surfaces, sparks, open flame<br>ces. No smoking.<br>1 - Do not pierce or burn, even after use. | s and other ignition |
| Response                   | applicable.   |                      |
| Storage                    | 0 + P412 - Protect from sunlight. Do not expose to tempera<br>22 °F.  | atures exceeding 50  |
| Disposal                   | applicable.   |                      |
| Other hezerde which do not |   |                      |

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

## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

# Section 3. Composition/information on ingredients

| Ingredient name                              | %    | CAS number |
|--|------|------------|
| 1,3,3,3-Tetrafluoropropylene                 | ≤5   | 1645-83-6  |
| titanium dioxide                             | ≤3   | 13463-67-7 |
| trimethoxyvinylsilane                        | <1   | 2768-02-7  |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine | ≤0.3 | 1760-24-3  |

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.

| Chemical formula | : Not applicable. |
|------------------|-------------------|
|------------------|-------------------|

### Section 4. First aid measures

#### Description of necessary first aid measures

| Eye contact  | <ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower<br/>eyelids. Check for and remove any contact lenses. Get medical attention if irritation<br/>occurs.</li> </ul>                           |
|--------------|---|
| Inhalation   | : Remove victim to fresh air and keep at rest in a position comfortable for breathing.  |
| Skin contact | <ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and<br/>shoes. Get medical attention if symptoms occur.</li> </ul>  |
| Ingestion    | <ul> <li>Wash out mouth with water. If material has been swallowed and the exposed<br/>person is conscious, give small quantities of water to drink. Do not induce vomiting<br/>unless directed to do so by medical personnel.</li> </ul> |

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

| Potential acute health effects |   |  |  |
|--------------------------------|---|--|--|
| Eye contact                    | : No known significant effects or critical hazards.                                       |  |  |
| Inhalation                     | : No known significant effects or critical hazards.                                       |  |  |
| Skin contact                   | : No known significant effects or critical hazards.                                       |  |  |
| Ingestion                      | : No known significant effects or critical hazards.                                       |  |  |
| Over-exposure signs/sympt      | toms  |  |  |
| Eye contact                    | : Adverse symptoms may include the following:<br>irritation<br>redness                    |  |  |
| Inhalation                     | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing |  |  |
| Skin contact                   | : No specific data.   |  |  |
| Ingestion                      | : No specific data.   |  |  |

#### 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<br>Protection of first-aiders | <ul> <li>No specific treatment.</li> <li>No action shall be taken involving any personal risk or without suitable training.</li> </ul> |

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

| -  | _  |
|--|--|
| Extinguishing media                            |  |
| Suitable extinguishing media                   | : Use an extinguishing agent suitable for the surrounding fire.  |
| Unsuitable extinguishing media                 | : None known.  |
| Specific hazards arising from the chemical     | : 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. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. |
| Hazardous thermal decomposition products       | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<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. In the case of aerosols being ruptured, care should be taken due to the<br>rapid escape of the pressurized contents and propellant. If a large number of<br>containers are ruptured, treat as a bulk material spillage according to the<br>instructions in the clean-up section. Do not touch or walk through spilled material.<br>Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on<br>appropriate personal protective equipment. |
|--------------------------------|---|--|
| For emergency responders       | : | If specialized 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 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).  |

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

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

# Section 7. Handling and storage

#### Precautions for safe handling

| Protective measures  | : Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. |
|--|--|
| 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 | : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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   |
|------------------|---|
| titanium dioxide | Workplace Safety and Health Act<br>(Singapore, 2/2006).<br>PEL (long term): 10 mg/m <sup>3</sup> 8 hours.   |
| methanol         | [Air contaminant - Curing]<br>Workplace Safety and Health Act<br>(Singapore, 2/2006).<br>PEL (long term): 200 ppm 8 hours.<br>PEL (long term): 262 mg/m <sup>3</sup> 8 hours.<br>PEL (short term): 328 mg/m <sup>3</sup> 15 minutes.<br>PEL (short term): 250 ppm 15 minutes. |

| Appropriate engineering controls | : Use only with adequate ventilation. 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. The engineering controls also need to keep gas, vapor 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<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    | 5  |

# 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.

# Section 8. Exposure controls/personal protection

| <b>I</b>               |   |
|------------------------|---|
| 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: safety glasses with side-shields.   |
| 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. Recommended : 1 - 4 hours<br>(breakthrough time): nitrile rubber 4 - 8 hours (breakthrough time): Viton®/butyl<br>rubber |
| Body protection        | <ul> <li>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.</li> </ul>   |
| 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 | : 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 : organic vapor (Type AX) and particulate filter   |

# Section 9. Physical and chemical properties

#### Appearance

| <u>Appearance</u>                                       |   |        |
|---|---|--------|
| Physical state  | Aerosol.  |        |
| Color   | Various   |        |
| Odor  | Characteristic.   |        |
| Odor threshold  | Not available.  |        |
| рН  | Not applicable.   |        |
| Melting point/freezing point                            | Not available.  |        |
| Boiling point, initial boiling point, and boiling range | Not available.  |        |
| Flash point   | Closed cup: >93.3°C (>199.9°F)  |        |
| Evaporation rate  | Not available.  |        |
| Flammability  | Flammable in the presence of the following materials or conditions: open flan sparks and static discharge and heat. | nes,   |
| Lower and upper explosion<br>limit/flammability limit   | Not applicable.   |        |
| Vapor pressure  | <0 kPa (<0 mm Hg)   |        |
| Relative vapor density                                  | Not applicable.   |        |
| Relative density  | Not available.  |        |
| Density   | 1.44 g/cm³ [20°C (68°F)]  |        |
| Solubility(ies)<br>Not available.                       |   |        |
| Solubility in water                                     | Not available.  |        |
| Miscible with water                                     | No.   |        |
| Partition coefficient: n-<br>octanol/water              | Not applicable.   |        |
| Auto-ignition temperature                               | Not applicable.   |        |
| Decomposition temperature                               | Not available.  |        |
| Viscosity   | Not applicable.   |        |
| Date of issue/Date of revision                          | : 5/11/2023 Date of previous issue : 10/20/2022 Version : 1.05  | 5 5/11 |

# Section 9. Physical and chemical properties

| Flow time (ISO 2431)     | : Not available. |
|--------------------------|------------------|
| Particle characteristics |                  |
| Median particle size     | : Not available. |
| Aerosol product          | . Het available. |
| Type of aerosol          | : Spray          |
| Type of derosol          | . Opray          |

| Section 10. Stabil                 | ty 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                | : Avoid all possible sources of ignition (spark or flame).   |
| Incompatible materials             | : No specific data.  |
| Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| SADT                               | : Not available.   |

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                          | Result    | Species | Dose       | Exposure |
|--|-----------|---------|------------|----------|
| N-(3-(trimethoxysilyl)propyl)<br>ethylenediamine | LD50 Oral | Rat     | 2413 mg/kg | -        |

#### Irritation/Corrosion

| Product/ingredient name                          | Result                 | Species | Score | Exposure      | Observation |
|--|------------------------|---------|-------|---------------|-------------|
| titanium dioxide                                 | Skin - Mild irritant   | Human   | -     | 72 hours 300  | -           |
| N-(3-(trimethoxysilyl)propyl)<br>ethylenediamine | Eyes - Severe irritant | Rabbit  | -     | ug I<br>15 mg | -           |
|  | Skin - Mild irritant   | Rabbit  | -     | 500 mg        | -           |

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

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

# Section 11. Toxicological information

| Name  |  | Category   | Route of exposure                | Target organs                |
|---|--|--|----------------------------------|------------------------------|
| N-(3-(trimethoxysilyl)propyl)   | N-(3-(trimethoxysilyl)propyl)ethylenediamine   |  | -                                | Respiratory tract irritation |
| Specific target organ toxici  | ity (repeated exposure)  | 1  |                                  |                              |
| Not available.  |  |  |                                  |                              |
| Aspiration hazard   |  |  |                                  |                              |
| Not available.  |  |  |                                  |                              |
|   |  |  |                                  |                              |
| Information on the likely routes of exposure  | : Not available.   |  |                                  |                              |
| Potential acute health effect   | <u>S</u>   |  |                                  |                              |
| Eye contact   | : No known significar  | nt effects or critical haz   | ards.                            |                              |
| Inhalation  | : No known significar  | nt effects or critical haz   | ards.                            |                              |
| Skin contact  | : No known significar  | nt effects or critical haz   | ards.                            |                              |
| Ingestion   | : No known significar  | nt effects or critical haz   | ards.                            |                              |
| Symptoms related to the phy   | vsical, chemical and to  | xicological character  | istics                           |                              |
| Eye contact   |  | may include the follow   |                                  |                              |
| Inhalation  | : Adverse symptoms<br>respiratory tract irrit<br>coughing  | may include the follow<br>ation  | ing:                             |                              |
| Skin contact  | : No specific data.  |  |                                  |                              |
| Ingestion   | : No specific data.  |  |                                  |                              |
|   |  |  |                                  |                              |
| Delayed and immediate effe  | cts and also chronic ef  | fects from short and   | long term exposi                 | Ire                          |
| -   | cts and also chronic ef  | fects from short and   | long term exposi                 | <u>ire</u>                   |
| Delayed and immediate effer<br>Short term exposure<br>Potential immediate<br>effects  | cts and also chronic ef<br>: Not available.  | fects from short and   | <u>long term expos</u> i         | <u>ire</u>                   |
| Short term exposure<br>Potential immediate  |  | fects from short and   | <u>long term expos</u> i         | <u>ıre</u>                   |
| Short term exposure<br>Potential immediate<br>effects<br>Potential delayed effects  | : Not available.   | fects from short and   | <u>long term expos</u> i         | <u>Jre</u>                   |
| Short term exposure<br>Potential immediate<br>effects   | : Not available.   | fects from short and   | <u>long term expos</u>           | <u>ıre</u>                   |
| Short term exposure<br>Potential immediate<br>effects<br>Potential delayed effects<br>Long term exposure<br>Potential immediate   | : Not available.<br>: Not available.   | fects from short and   | <u>long term expos</u> i         | <u>ıre</u>                   |
| Short term exposure<br>Potential immediate<br>effects<br>Potential delayed effects<br>Long term exposure<br>Potential immediate<br>effects  | <ul> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> </ul>   | fects from short and   | <u>long term expos</u> i         | <u>ıre</u>                   |
| Short term exposure<br>Potential immediate<br>effects<br>Potential delayed effects<br>Long term exposure<br>Potential immediate<br>effects<br>Potential delayed effects<br>Potential chronic health eff   | <ul> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Focts</li> </ul>  |  |                                  | <u>ıre</u>                   |
| Short term exposure<br>Potential immediate<br>effects<br>Potential delayed effects<br>Long term exposure<br>Potential immediate<br>effects<br>Potential delayed effects<br>Potential chronic health eff<br>Not available.<br>General                                    | <ul> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>fects</li> <li>No known significar</li> </ul>   | nt effects or critical haz   | ards.                            | <u>Jre</u>                   |
| Short term exposure<br>Potential immediate<br>effects<br>Potential delayed effects<br>Long term exposure<br>Potential immediate<br>effects<br>Potential delayed effects<br>Potential chronic health eff<br>Not available.   | <ul> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>fects</li> <li>No known significar</li> <li>No known significar</li> </ul>  |  | ards.<br>ards.                   | <u>Ire</u>                   |
| Short term exposure<br>Potential immediate<br>effects<br>Potential delayed effects<br>Long term exposure<br>Potential immediate<br>effects<br>Potential delayed effects<br>Potential chronic health eff<br>Not available.<br>General<br>Carcinogenicity<br>Mutagenicity | <ul> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>fects</li> <li>No known significar</li> <li>No known significar</li> <li>No known significar</li> </ul>   | nt effects or critical haz<br>nt effects or critical haz<br>nt effects or critical haz | ards.<br>ards.<br>ards.          | <u>Ire</u>                   |
| Potential immediate<br>effects<br>Potential delayed effects<br>Long term exposure<br>Potential immediate<br>effects<br>Potential delayed effects<br>Potential chronic health eff<br>Not available.<br>General<br>Carcinogenicity  | <ul> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>fects</li> <li>No known significar</li> </ul> | nt effects or critical haz<br>nt effects or critical haz                               | ards.<br>ards.<br>ards.<br>ards. | <u>Ire</u>                   |

# Numerical measures of toxicity

Acute toxicity estimates

Not available.

# Section 11. Toxicological information

| Product/ingredient name   | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapors)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|---|------------------|-------------------|--------------------------------|----------------------------------|--|
| trimethoxyvinylsilane<br>N-(3-(trimethoxysilyl)propyl)ethylenediamine | N/A<br>2413      | N/A<br>N/A        | N/A<br>N/A                     | 11<br>N/A                        | N/A<br>N/A                                   |
| Acute toxicity estimates  |                  |                   |                                |                                  |  |
|   |                  |                   | ATE value                      |                                  |  |

# Section 12. Ecological information

| Toxicity                |  |   |          |
|-------------------------|--|---|----------|
| 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 -<br>Neonate          | 48 hours |
|                         | Acute LC50 3 mg/l Fresh water            | Crustaceans - Ceriodaphnia<br>dubia - Neonate | 48 hours |
|                         | Acute LC50 13.4 mg/l Fresh water         | Crustaceans - Ceriodaphnia<br>dubia - Neonate | 48 hours |
|                         | Acute LC50 11 mg/l Fresh water           | Crustaceans - Ceriodaphnia<br>dubia - Neonate | 48 hours |
|                         | Acute LC50 3.6 mg/l Fresh water          | Crustaceans - Ceriodaphnia<br>dubia - Neonate | 48 hours |
|                         | Acute LC50 15.9 mg/l Fresh water         | Crustaceans - Ceriodaphnia<br>dubia - Neonate | 48 hours |
|                         | Acute LC50 6.5 mg/l Fresh water          | Daphnia - Daphnia pulex -<br>Neonate          | 48 hours |
|                         | Acute LC50 13 mg/l Fresh water           | Daphnia - Daphnia pulex -<br>Neonate          | 48 hours |
|                         | Acute LC50 >1000000 µg/l Marine<br>water | Fish - Fundulus heteroclitus                  | 96 hours |
|                         | Acute LC50 >1000 mg/l Fresh water        | Fish - Pimephales promelas                    | 96 hours |

#### Persistence/degradability

Not available.

#### **Bioaccumulative potential**

Not available.

#### Mobility in soil

# Section 12. Ecological information

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 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. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

## Section 14. Transport information

|  | UN  | IMDG   | IATA                        | ADR/RID  |  |
|--|---|--|-----------------------------|----------|--|
| UN number                                  | UN1950  | UN1950   | UN1950                      | UN1950   |  |
| UN proper<br>shipping name                 | AEROSOLS  | AEROSOLS   | Aerosols, non-<br>flammable | AEROSOLS |  |
| Transport hazard<br>class(es)              | 2.2   | 2.2  | 2.2                         | 2        |  |
| Packing group                              | -   | -  | -                           | -        |  |
| Environmental<br>hazards                   | No.   | No.  | No.                         | No.      |  |
| Additional informat                        | tion_   |  |                             |          |  |
| UN   | : <u>Special p</u>  | <b>rovisions</b> 63, 190, 27   | 7, 327, 344, 381            |          |  |
| IMDG                                       |   | cy schedules F-D, S-   |                             |          |  |
| ΙΑΤΑ                                       | <ul> <li>Special provisions 63, 190, 277, 327, 344, 381, 959</li> <li>Quantity limitation Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y203. Special provisions A98, A145, A167, A802</li> </ul> |  |                             |          |  |
| ADR/RID                                    | <ul> <li><u>Limited quantity</u> 1 L</li> <li><u>Special provisions</u> 190, 327, 625, 344</li> <li><u>Tunnel code</u> (E)</li> <li><u>ADR Classification Code:</u> 5A</li> </ul>   |  |                             |          |  |
| Special precautions                        | upright and   | <b>user : Transport within user's premises:</b> 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 ac<br>to IMO instruments | ccording : Not availal  | cording : Not available.   |                             |          |  |

# Section 15. Regulatory information

#### Singapore - hazardous chemicals under government control

| Ingredient name  | Status |
|--|--------|
| hydrofluorocarbons, including any mixture containing any such hydrofluorocarbons | Listed |

#### 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               | : Not determined.  |
| Canada                  | : Not determined.  |
| China                   | : Not determined.  |
| Eurasian Economic Union | : Russian Federation inventory: All components are listed or exempted.               |
| Japan                   | : Japan inventory (CSCL): Not determined.<br>Japan inventory (ISHL): Not determined. |
| New Zealand             | : Not determined.  |
| Philippines             | : Not determined.  |
| Republic of Korea       | : Not determined.  |
| Taiwan                  | : Not determined.  |
| Thailand                | : Not determined.  |
| Turkey                  | : Not determined.  |
| United States           | : Not determined.  |
| Viet Nam                | : Not determined.  |

# Section 16. Other information

| <u>History</u>                 |  |
|--------------------------------|--|
| Date of printing               | : 5/14/2023  |
| Date of issue/Date of revision | : 5/11/2023  |
| Date of previous issue         | : 10/20/2022   |
| Version                        | : 1.05   |
| Key to abbreviations           | : 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 = Internediate Bulk Container<br>IMDG = 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>N/A = Not available<br>SGG = Segregation Group |

| Date of issue/Date of revision | : 5/11/2023 | Date of previous issue | : 10/20/2022 | Version : 1.05 10/11 |
|--------------------------------|-------------|------------------------|--------------|----------------------|
|--------------------------------|-------------|------------------------|--------------|----------------------|

# Section 16. Other information

UN = United Nations

#### Procedure used to derive the classification

| Classification        | Justification         |
|-----------------------|-----------------------|
| AEROSOLS - Category 3 | On basis of test data |

References

: Not available.

Indicates information that has changed from previously issued version.

#### Notice to reader

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