

# SAFETY DATA SHEET

REPLIFIX-2 & REPLIFIX-20, YELLOW



## Section 1. Identification

**Product name** : REPLIFIX-2 & REPLIFIX-20, YELLOW  
**Cat. No.** : 40900084, 40900086  
**Container size** : 250 g  
**Other means of identification** : Not available.  
**Product type** : Solid.

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

**Product use** : Replication system for materialographic surfaces.  
**Area of application** : Professional applications.

**Supplier's details** : Struers Australia  
27 Mayneview Street  
Milton QLD 4064, Australia  
  
Telephone: +61 7 3512 9600

**e-mail address of person responsible for this SDS** : struers@struers.dk

**Emergency telephone number (with hours of operation)** : National Poisons Centre: 0800 764 766 (24/7)

## Section 2. Hazards identification

**HSNO Classification** : H350 CARCINOGENICITY - Category 1  
H361 REPRODUCTIVE TOXICITY - Category 2  
H372 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1  
H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

### GHS label elements

**Signal word** : Danger  
**Hazard statements** : H350 - May cause cancer.  
H361 - Suspected of damaging fertility or the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure. (lungs)  
H412 - Harmful to aquatic life with long lasting effects.

### Precautionary statements

**Version** : 1

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## Section 2. Hazards identification

- Prevention** : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.  
P273 - Avoid release to the environment.  
P260 - Do not breathe dust.  
P270 - Do not eat, drink or smoke when using this product.  
P264 - Wash thoroughly after handling.
- Response** : P308 + P313 - IF exposed or concerned: Get medical advice or attention.
- Storage** : P405 - Store locked up.
- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Symbol** :



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

## Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.

| Ingredient name                       | % (w/w)   | Identifiers     |
|---------------------------------------|-----------|-----------------|
| crystalline silica, respirable powder | ≥60 - ≤75 | CAS: 14808-60-7 |
| octamethylcyclotetrasiloxane          | <0.25     | CAS: 556-67-2   |

**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

### Description of necessary first aid measures

- 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.

## Section 4. First aid measures

- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. 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.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- 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.

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

#### 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** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Skin** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Eyes** : No specific data.

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

- Specific treatments** : No specific treatment.
- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.



## Section 4. First aid measures

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

- Suitable** : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.
- Not suitable** : Do not use water jet.

**Specific hazards arising from the chemical** : This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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

**Hazchem code** : Not available.

**Special precautions 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.

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

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is 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".

**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.

### Methods and material for containment and cleaning up

**Small spill** : Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.



## Section 6. Accidental release measures

- Large spill** : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. 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 release to the environment. 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.

- 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 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| crystalline silica, respirable powder | <p><b>HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023) [silica-crystalline (<math>\alpha</math>-quartz and cristobalite)] confirmed carcinogen.</b><br/> WES-TWA 8 hours: 0.025 mg/m<sup>3</sup>. Form: The value for respirable dust..</p> <p><b>HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023) [silica-crystalline (all forms)] carcinogen category 1.</b><br/> WES-TWA 8 hours: 0.025 mg/m<sup>3</sup>. Form: The value for respirable dust..</p> |

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## Section 8. Exposure controls/personal protection

### Biological exposure indices

None known.

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour 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.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### Skin protection

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

- 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.

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

- 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: Filter type:: P2.



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

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

### Appearance

|                                                          |                               |
|----------------------------------------------------------|-------------------------------|
| Physical state                                           | : Solid. [Putty.]             |
| Colour                                                   | : Yellow.                     |
| Odour                                                    | : Odour [Slight]              |
| Odour threshold                                          | : Not available.              |
| pH                                                       | : Not applicable.             |
| Melting point/freezing point                             | : Not available.              |
| Boiling point or initial boiling point and boiling range | : Not available.              |
| Flash point                                              | : Closed cup: >100°C (>212°F) |
| Evaporation rate                                         | : Not available.              |
| Flammability                                             | : Non-flammable.              |
| Lower and upper explosion limit/flammability limit       | : Not applicable.             |
| Vapour pressure                                          | : Not available.              |
| Relative vapour density                                  | : Not applicable.             |
| Relative density                                         | : 1.8                         |
| Solubility(ies)                                          | :                             |

| Media | Result    |
|-------|-----------|
| water | Insoluble |

|                                        |                                                                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Solubility in water                    | : Not available.                                                                                                                         |
| Miscible with water                    | : No.                                                                                                                                    |
| Partition coefficient: n-octanol/water | : Not applicable.                                                                                                                        |
| Auto-ignition temperature              | : Not applicable.                                                                                                                        |
| Decomposition temperature              | : Not available.                                                                                                                         |
| Viscosity                              | : Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C (104°F)): Not available. |
| Flow time (ISO 2431)                   | : Not available.                                                                                                                         |

### Particle characteristics

|                      |                  |
|----------------------|------------------|
| Median particle size | : Not available. |
|----------------------|------------------|

### Other information

|                                       |                              |
|---------------------------------------|------------------------------|
| Physical/chemical properties comments | : No additional information. |
|---------------------------------------|------------------------------|



## Section 10. Stability and reactivity

|                                           |                                                                                                                                                                                                                    |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.                                                                                                                       |
| <b>Chemical stability</b>                 | : The product is stable.                                                                                                                                                                                           |
| <b>Possibility of hazardous reactions</b> | : During Storage, This product may generate hydrogen gas. Quantity of hydrogen potentially released (l/kg of product): < 4<br>Under normal conditions of storage and use, hazardous polymerisation will not occur. |
| <b>Conditions to avoid</b>                | : No specific data.                                                                                                                                                                                                |
| <b>Incompatible materials</b>             | : Reactive or incompatible with the following materials: oxidising materials, acids and alkalis.                                                                                                                   |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.                                                                                                             |

## Section 11. Toxicological information

### Information on likely routes of exposure

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| <b>Inhalation</b>   | : No known significant effects or critical hazards. |
| <b>Ingestion</b>    | : No known significant effects or critical hazards. |
| <b>Skin contact</b> | : No known significant effects or critical hazards. |
| <b>Eye contact</b>  | : No known significant effects or critical hazards. |

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

|                     |                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | : Adverse symptoms may include the following:<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations |
| <b>Ingestion</b>    | : Adverse symptoms may include the following:<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations |
| <b>Eye contact</b>  | : No specific data.                                                                                                           |

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

#### Acute toxicity



## Section 11. Toxicological information

| Product/ingredient name      | Result                 | Species | Dose     | Exposure |
|------------------------------|------------------------|---------|----------|----------|
| Octamethylcyclotetrasiloxane | LC50 Inhalation Vapour | Rat     | >36 mg/l | 4 hours  |

**Conclusion/Summary** : Not available.

### Irritation/Corrosion

| Product/ingredient name      | Result               | Species | Score | Exposure        | Observation |
|------------------------------|----------------------|---------|-------|-----------------|-------------|
| Octamethylcyclotetrasiloxane | Skin - Mild irritant | Rabbit  | -     | 24 hours 500 mg | -           |

### Conclusion/Summary

**Skin** : Not available.

**Eyes** : Not available.

**Respiratory** : Not available.

### Respiratory or skin sensitization

| Product/ingredient name      | Route of exposure | Species    | Result          |
|------------------------------|-------------------|------------|-----------------|
| Octamethylcyclotetrasiloxane | skin              | Guinea pig | Not sensitizing |

### Conclusion/Summary

**Skin** : Not available.

**Respiratory** : Not available.

### Potential chronic health effects

**General** : Causes damage to organs through prolonged or repeated exposure.

**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.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

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

**Teratogenicity** : Suspected of damaging the unborn child.

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

**Fertility effects** : Suspected of damaging fertility.

### Chronic toxicity

| Product/ingredient name      | Result                 | Species | Dose      | Exposure |
|------------------------------|------------------------|---------|-----------|----------|
| octamethylcyclotetrasiloxane | Sub-acute NOAEL Dermal | Rabbit  | 960 mg/kg | -        |

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Mutagenicity



## Section 11. Toxicological information

| Product/ingredient name      | Test                                                       | Experiment                                        | Result   |
|------------------------------|------------------------------------------------------------|---------------------------------------------------|----------|
| octamethylcyclotetrasiloxane | OECD 471 Bacterial Reverse Mutation Test                   | Experiment: In vitro<br>Subject: Bacteria         | Negative |
|                              | OECD 473 In vitro Mammalian Chromosomal Aberration Test    | Experiment: In vitro<br>Subject: Mammalian-Animal | Negative |
|                              | OECD 476 In vitro Mammalian Cell Gene Mutation Test        | Experiment: In vitro<br>Subject: Mammalian-Animal | Negative |
|                              | OECD 475 Mammalian Bone Marrow Chromosomal Aberration Test | Experiment: In vivo<br>Subject: Mammalian-Animal  | Negative |
|                              | OECD 478 Genetic Toxicology: Rodent Dominant Lethal Test   | Experiment: In vivo<br>Subject: Mammalian-Animal  | Negative |

**Conclusion/Summary** : Not available.

### Teratogenicity

| Product/ingredient name      | Result                | Species         | Dose                | Exposure |
|------------------------------|-----------------------|-----------------|---------------------|----------|
| octamethylcyclotetrasiloxane | Negative - Inhalation | Rabbit - Female | 3.64 mg/kg<br>NOAEL | -        |

**Conclusion/Summary** : Not available.

### Reproductive toxicity

| Product/ingredient name      | Maternal toxicity | Fertility | Developmental toxin | Species | Dose                                   | Exposure |
|------------------------------|-------------------|-----------|---------------------|---------|----------------------------------------|----------|
| octamethylcyclotetrasiloxane | -                 | Positive  | Negative            | Rat     | Inhalation:<br>3.64 mg/<br>kg<br>NOAEL | -        |

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name               | Category   | Route of exposure | Target organs |
|---------------------------------------|------------|-------------------|---------------|
| crystalline silica, respirable powder | Category 1 | inhalation        | lungs         |

### Aspiration hazard

Not available.

### Numerical measures of toxicity

#### Acute toxicity estimates

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## Section 11. Toxicological information

| Product/ingredient name      | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| octamethylcyclotetrasiloxane | 500          | 1100           | N/A                      | N/A                         | N/A                                 |

## Section 12. Ecological information

**Ecotoxicity** : This material is harmful to aquatic life with long lasting effects.

### Aquatic and terrestrial toxicity

| Product/ingredient name      | Result                             | Species                                  | Exposure |
|------------------------------|------------------------------------|------------------------------------------|----------|
| octamethylcyclotetrasiloxane | Acute EC50 >0.022 mg/l             | Algae - <i>Selenastrum capricornutum</i> | 96 hours |
|                              | Acute EC50 >0.015 mg/l Fresh water | Daphnia - <i>Daphnia magna</i>           | 48 hours |
|                              | Acute LC50 >0.022 mg/l             | Fish - <i>Oncorhynchus mykiss</i>        | 96 hours |
|                              | Chronic NOEC 1 to 29 µg/l          | Algae - <i>Selenastrum capricornutum</i> | 96 hours |
|                              | Chronic NOEC 0.015 mg/l            | Daphnia - <i>Daphnia magna</i>           | 21 days  |
|                              | Chronic NOEC 7.9 µg/l Fresh water  | Daphnia - <i>Daphnia magna</i>           | 21 days  |
|                              | Chronic NOEC 4.4 µg/l Fresh water  | Fish - <i>Oncorhynchus mykiss</i> - Egg  | 90 days  |
|                              | Chronic NOEC ≥0.0044 mg/l          | Fish - <i>Oncorhynchus mykiss</i>        | 93 days  |

**Conclusion/Summary** : Not available.

### Persistence/degradability

| Product/ingredient name      | Test                                                                 | Result                        | Dose    | Inoculum         |
|------------------------------|----------------------------------------------------------------------|-------------------------------|---------|------------------|
| octamethylcyclotetrasiloxane | OECD Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test) | 3.7 % - Not readily - 28 days | 10 mg/l | Activated sludge |

| Product/ingredient name      | Aquatic half-life | Photolysis | Biodegradability |
|------------------------------|-------------------|------------|------------------|
| octamethylcyclotetrasiloxane | -                 | -          | Not readily      |

### Bioaccumulative potential

| Product/ingredient name      | LogP <sub>ow</sub> | BCF   | Potential |
|------------------------------|--------------------|-------|-----------|
| octamethylcyclotetrasiloxane | 6.488              | 13400 | High      |

### Mobility in soil

**Soil/water partition coefficient** : Not available.

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## Section 12. Ecological information

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

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and 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. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                            | New Zealand    | IMDG           | IATA           |
|----------------------------|----------------|----------------|----------------|
| UN number                  | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name    | -              | -              | -              |
| Transport hazard class(es) | -              | -              | -              |
| Packing group              | -              | -              | -              |
| Environmental hazards      | No.            | No.            | No.            |

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

**Transport in bulk according to IMO instruments** : Not available.



## Section 15. Regulatory information

|                                                   |                                                                                                                                                                                                                |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HSNO Approval Number</b>                       | : Not available.                                                                                                                                                                                               |
| <b>HSNO Group Standard</b>                        | : Not available.                                                                                                                                                                                               |
| <b>HSNO Classification</b>                        | : H350 CARCINOGENICITY - Category 1<br>H361 REPRODUCTIVE TOXICITY - Category 2<br>H372 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1<br>H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| <b>New Zealand Inventory of Chemicals (NZIoC)</b> | : Not determined.                                                                                                                                                                                              |

### 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

### History

|                                       |                          |
|---------------------------------------|--------------------------|
| <b>Date of issue/Date of revision</b> | : 13/01/2025             |
| <b>Date of previous issue</b>         | : No previous validation |
| <b>Version</b>                        | : 1                      |

Sphera Solutions

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Key to abbreviations</b> | : ADG = Australian Dangerous Goods<br>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road<br>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 = Intermediate 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, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail<br>SGG = Segregation Group |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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## Section 16. Other information

### References

UN = United Nations

- : Environmental Protection Authority - Inventory of Chemicals (NZIoC)
- Hazardous Substances Regulations 2001 (Classification, Identification, Minimum Degrees of Hazard)
- Hazardous Substances and New Organisms Act (HSNO) 1996 – Hazardous Substances List
- Health and Safety in Employment Act 1992 - Workplace Exposure Standards and Biological Exposure Indices
- Code of Practice for the Preparation of Safety Data Sheets (SDS)
- Transport of Dangerous Goods on Land (NZS 5433:2020)
- User Guide to the Thresholds and Classifications under the Hazardous Substances and New Organisms Act 1996 (GHS)
- GHS - Globally Harmonised System of Classification and Labelling of Chemicals
- International transport regulations

Indicates information that has changed from previously issued version.

### Notice to reader

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

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

