



## SAFETY DATA SHEET

# satacen® 3

### SECTION 1: Identification of the substance/mixture and of the company/ undertaking

#### 1.1 Product identifier

**Product name** : satacen® 3  
**Product code** : 16018  
**Internal code** : 16018  
**Date of issue/ Date of revision** : 4/3/2024  
**Date of previous issue** : 4/2/2024  
**Version** : 19.01  
**Product description** : Mixture  
**Physical state** : Liquid.  
**Chemical identity** : Not available.  
**UFI** : 6U20-K0ET-N008-7FNM

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

##### Identified uses

Petrochemical industry: Fuel additive.

#### 1.3 Details of the supplier of the safety data sheet

**UK Supplier** : Innospec Limited  
Innospec Manufacturing Park  
Oil Sites Road, Ellesmere Port  
Cheshire CH65 4EY  
United Kingdom

**Telephone no.:** : +44 (0)151 355 3611  
**Fax no.** : +44 (0)151 356 2349  
**e-mail address of person responsible for this SDS** : sdsinfo@innospecinc.com

**EU Supplier** : Innospec Limited  
Boite Postale 19, F-55300 St. Mihiel  
Han-sur-Meuse, Meuse, France  
+ 33 3 2991 7300

**Distributor** : Clean-Life Umwelttechnik AG  
Bernstrasse 16a  
CH – 6144 Zell  
+41 (0)62 961 88 01  
Fax: +41(0)62 961 88 02  
info@clean-life.ch

#### 1.4 Emergency telephone number

**Tox Info Suisse, the Swiss poisons information centre** : 145 (24h)

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

In Europe, Middle East, Africa, Asia Pacific and South America  
24 hour / 7 day emergency response for our products is  
provided by the NCEC CARECHEM 24 global network



The main regional centres are listed here in Section 1. Other local contact numbers for specific language support in Asia Pacific are listed in Section 16.

| Country information  | Emergency telephone number | Location      |
|--|----------------------------|---------------|
| Europe ( all countries, all languages )                            | : +44 (0) 1235 239 670     | London, UK    |
| Middle East, Africa ( Arabic, French, English , Portuguese, Farsi) | : +44 (0) 1235 239 671     | London, UK    |
| Asia Pacific ( all countries except China )                        | : +65 3158 1074            | Singapore     |
| China  | : 400 120 6011             | Beijing China |
| Brazil   | : +55 11 3197 5891         | Brazil        |
| Mexico   | : +52 555 004 8763         | Mexico        |

In USA, Canada and North America, 24 h/7 days of emergency response for our product is provided by the CHEMTREC(R) Emergency Call Center based in the USA.

| Country information   | Emergency telephone number |
|---|----------------------------|
| USA   | : 800 424 9300             |
| Canada, Puerto Rico, Virgin Islands   | : +1 800 424 9300          |
| In case of difficulty using the toll-free number, or for ships at sea, call | : +1 703 527 3887          |

Indicates information that has changed from previously issued version.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Repr. 1B, H360FD  
STOT RE 2, H373  
Asp. Tox. 1, H304  
Aquatic Chronic 3, H412

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H304 - May be fatal if swallowed and enters airways.  
H360FD - May damage fertility. May damage the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H412 - Harmful to aquatic life with long lasting effects.

Supplemental label elements : Repeated exposure may cause skin dryness or cracking.  
Contains maleic anhydride. May produce an allergic reaction.

#### Precautionary statements

General : Not applicable.

Date of issue/Date of revision : 4/3/2024

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## SECTION 2: Hazards identification

- Prevention** : P201 - Obtain special instructions before use.  
P280 - Wear protective gloves: > 8 hours (breakthrough time): Viton®1 - 4 hours (breakthrough time): nitrile rubber. Wear protective clothing. Wear eye or face protection: Recommended: splash goggles. Wear hearing protection.  
P273 - Avoid release to the environment.  
P260 - Do not breathe vapour.
- Response** : P308 + P313 - IF exposed or concerned: Get medical advice or attention.  
P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
- Storage** : Not applicable.
- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazardous ingredients** : Hydrocarbons, C11-C13, isoalkanes, <2% aromatics and 1,1'-Bis-(ferrocenyl)octane

### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/ingredient name  | Identifiers   | %         | Classification  | Specific Conc. Limits, M-factors and ATEs                   | Type    |
|--|---|-----------|---|---|---------|
| Hydrocarbons, C11-C13, isoalkanes, <2% aromatics   | REACH #:<br>01-2119456810-40<br>EC: 920-901-0<br>CAS: 64742-48-9                      | ≥50 - ≤75 | Asp. Tox. 1, H304<br>EUH066   | -   | [1] [2] |
| 1,1'-Bis-(ferrocenyl)octane  | REACH #:<br>01-0000020037-79<br>EC: 479-710-1   | ≥10 - ≤25 | Repr. 1B, H360FD<br>STOT RE 2, H373<br>(liver)<br>Aquatic Chronic 4, H413                                   | -   | [1]     |
| Hydrocarbons, C10, aromatics, >1% naphthalene [Solvent naphtha (petroleum), heavy arom.] | REACH #:<br>01-2119463588-24<br>EC: 919-284-0<br>CAS: 64742-94-5                      | ≤3        | STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066                                   | -   | [1] [2] |
| naphthalene  | EC: 202-049-5<br>CAS: 91-20-3<br>Index: 601-052-00-2                                  | ≤0.3      | Acute Tox. 4, H302<br>Carc. 2, H351<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                     | ATE [Oral] = 490 mg/kg<br>M [Acute] = 1<br>M [Chronic] = 1  | [1] [2] |
| maleic anhydride   | REACH #:<br>01-2119472428-31<br>EC: 203-571-6<br>CAS: 108-31-6<br>Index: 607-096-00-9 | <0.001    | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Resp. Sens. 1, H334<br>Skin Sens. 1A, H317 | ATE [Oral] = 400 mg/kg<br>Skin Sens. 1, H317:<br>C ≥ 0.001% | [1] [2] |

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### SECTION 3: Composition/information on ingredients

|  |  |  |   |  |
|--|--|--|---|--|
|  |  |  | STOT RE 1, H372<br>(respiratory system)<br>(inhalation)<br>EUH071<br><b>See Section 16 for<br/>                 the full text of the H<br/>                 statements declared<br/>                 above.</b> |  |
|--|--|--|---|--|

#### Additional CAS # used in National Inventories

|  |   |                                     |
|--|---|-------------------------------------|
| Hydrocarbons, C11-C13, isoalkanes, <2% aromatics | - | 64742-48-9, 90622-58-5, 246538-78-3 |
| Organometallic iron compound                     | - |                                     |
| Solvent naphtha (petroleum), heavy arom.         | - | 64742-94-5                          |
| naphthalene                                      | - | 91-20-3                             |

#### Additional information

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, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

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

Our REACH (pre-) registrations DO NOT cover the following:

1. The manufacture of these products by our company outside the EU unless covered by the Only Representative provisions, and
  2. The importation of these products into Europe by other companies. Re-importation by other companies is not covered by our (pre-) registrations
- Customers and other third parties importing and/or re-importing our products into Europe will need either:
- Their own (pre-) registration for substances contained in the imported product, or constituent monomers (imported above 1 tonne per year and >2% by weight) in the case of imported polymers, or
  - In the case of importation only, to make use of the "Only Representative" provisions, if available.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash skin thoroughly with soap and water or use recognised skin cleanser. 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.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Remove dentures if any. Wash out mouth with water. Stop if the exposed person feels sick as vomiting may be dangerous. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical

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## SECTION 4: First aid measures

attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**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.

### 4.2 Most important symptoms and effects, both 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** : Defatting to the skin. May cause skin dryness and irritation.  
**Ingestion** : May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

**Eye contact** : No specific data.  
**Inhalation** : Adverse symptoms may include the following:  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations  
**Skin contact** : Adverse symptoms may include the following:  
 irritation  
 dryness  
 cracking  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations  
**Ingestion** : Adverse symptoms may include the following:  
 nausea or vomiting  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.  
**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.  
**Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. 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  
 nitrogen oxides  
 metal oxide/oxides

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## SECTION 5: Firefighting measures

### 5.3 Advice for firefighters

- 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.
- 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 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. Avoid breathing vapour or mist. 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".

### 6.2 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.

### 6.3 Methods and material 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 the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

### 6.4 Reference to other sections

- : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 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 breathe vapour or mist. Do not swallow. 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.

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## SECTION 7: Handling and storage

**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.

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

**Storage** : Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). 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.

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name   | Exposure limit values   |
|---|---|
| Hydrocarbons, C11-C13, isoalkanes, <2% aromatics  | <b>Innospec Inc. (Europe, 5/2007).</b><br>Reciprocal Calculation Procedure (RCP) Supplier's information: 1200 mg/m <sup>3</sup> , (Hydrocarbon. Total.) 8 hours. Form: Vapour<br>Reciprocal Calculation Procedure (RCP) Supplier's information: 171 ppm, (Hydrocarbon. Total.) 8 hours. Form: Vapour  |
| Hydrocarbons, C10, aromatics, >1% naphthalene [Solvent naphtha (petroleum), heavy arom.]<br>naphthalene | <b>Supplier/Manufacturer (Europe, 2015).</b><br>EU HSPA (RCP Aromatic solvents 180 - 215): 151 mg/m <sup>3</sup> 8 hours.<br><b>SUVA (Switzerland, 1/2023). Absorbed through skin.</b><br>TWA: 10 ppm, 0 times per shift, 8 hours. Form: vapour and aerosols<br>TWA: 50 mg/m <sup>3</sup> , 0 times per shift, 8 hours. Form: vapour and aerosols |
| maleic anhydride  | <b>SUVA (Switzerland, 1/2023). Skin sensitiser. Inhalation sensitiser.</b><br>TWA: 0.1 ppm 8 hours. Form: vapour and aerosols<br>TWA: 0.4 mg/m <sup>3</sup> 8 hours. Form: vapour and aerosols<br>STEL: 0.1 ppm 15 minutes. Form: vapour and aerosols<br>STEL: 0.4 mg/m <sup>3</sup> 15 minutes. Form: vapour and aerosols                        |

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

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**SECTION 8: Exposure controls/personal protection**

| Product/ingredient name  | Type        | Exposure              | Value                    | Population           | Effects  |          |
|--|-------------|-----------------------|--------------------------|----------------------|----------|----------|
| Hydrocarbons, C10, aromatics, >1% naphthalene [Solvent naphtha (petroleum), heavy arom.] | DNEL        | Long term Dermal      | 12.5 mg/kg bw/day        | Workers              | Systemic |          |
|  | DNEL        | Long term Inhalation  | 151 mg/m <sup>3</sup>    | Workers              | Systemic |          |
|  | DNEL        | Long term Dermal      | 7.5 mg/kg bw/day         | General population   | Systemic |          |
|  | DNEL        | Long term Inhalation  | 32 mg/m <sup>3</sup>     | General population   | Systemic |          |
|  | DNEL        | Long term Oral        | 7.5 mg/kg bw/day         | General population   | Systemic |          |
|  | DNEL        | Long term Oral        | 0.03 mg/kg bw/day        | General population   | Systemic |          |
|  | DNEL        | Long term Dermal      | 0.28 mg/kg bw/day        | General population   | Systemic |          |
|  | DNEL        | Long term Inhalation  | 0.69 mg/m <sup>3</sup>   | General population   | Local    |          |
|  | DNEL        | Long term Inhalation  | 0.69 mg/m <sup>3</sup>   | General population   | Systemic |          |
|  | DNEL        | Long term Dermal      | 0.95 mg/kg bw/day        | Workers              | Systemic |          |
|  | DNEL        | Long term Inhalation  | 2.31 mg/m <sup>3</sup>   | Workers              | Local    |          |
|  | DNEL        | Long term Inhalation  | 2.31 mg/m <sup>3</sup>   | Workers              | Systemic |          |
|  | DNEL        | Short term Oral       | 25.6 mg/kg bw/day        | General population   | Systemic |          |
|  | DNEL        | Short term Inhalation | 143.5 mg/m <sup>3</sup>  | General population   | Local    |          |
|  | DNEL        | Short term Inhalation | 160.23 mg/m <sup>3</sup> | Workers              | Local    |          |
|  | DNEL        | Short term Inhalation | 226 mg/m <sup>3</sup>    | General population   | Systemic |          |
|  | DNEL        | Short term Inhalation | 384 mg/m <sup>3</sup>    | Workers              | Systemic |          |
|  | naphthalene | DNEL                  | Long term Dermal         | 3.57 mg/kg bw/day    | Workers  | Systemic |
|  |             | DNEL                  | Long term Inhalation     | 25 mg/m <sup>3</sup> | Workers  | Systemic |
|  |             | DNEL                  | Long term Inhalation     | 25 mg/m <sup>3</sup> | Workers  | Local    |
|  | DNEL        | Long term Dermal      | 3.57 mg/kg bw/day        | Workers              | Systemic |          |
|  | DNEL        | Long term Inhalation  | 25 mg/m <sup>3</sup>     | Workers              | Local    |          |
|  | DNEL        | Long term Inhalation  | 25 mg/m <sup>3</sup>     | Workers              | Systemic |          |
| maleic anhydride   | DNEL        | Long term Inhalation  | 0.05 mg/m <sup>3</sup>   | General population   | Systemic |          |
|  | DNEL        | Long term Oral        | 0.06 mg/kg bw/day        | General population   | Systemic |          |
|  | DNEL        | Long term Inhalation  | 0.08 mg/m <sup>3</sup>   | General population   | Local    |          |
|  | DNEL        | Short term Oral       | 0.1 mg/kg bw/day         | General population   | Systemic |          |
|  | DNEL        | Short term Dermal     | 0.1 mg/kg bw/day         | General population   | Systemic |          |
|  | DNEL        | Long term Dermal      | 0.1 mg/kg bw/day         | General population   | Systemic |          |
|  | DNEL        | Long term Inhalation  | 0.19 mg/m <sup>3</sup>   | Workers              | Systemic |          |
|  | DNEL        | Short term Dermal     | 0.2 mg/kg bw/day         | Workers              | Systemic |          |



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**SECTION 8: Exposure controls/personal protection**

|  |      |                       |                        |         |          |
|--|------|-----------------------|------------------------|---------|----------|
|  | DNEL | Long term Dermal      | 0.2 mg/kg bw/day       | Workers | Systemic |
|  | DNEL | Long term Inhalation  | 0.32 mg/m <sup>3</sup> | Workers | Local    |
|  | DNEL | Short term Inhalation | 0.8 mg/m <sup>3</sup>  | Workers | Local    |
|  | DNEL | Short term Inhalation | 0.8 mg/m <sup>3</sup>  | Workers | Systemic |

**PNECs**

| Product/ingredient name     | Type | Compartment Detail     | Value          | Method Detail |
|-----------------------------|------|------------------------|----------------|---------------|
| 1,1'-Bis-(ferrocenyl)octane | PNEC | Sewage Treatment Plant | >9.9 mg/l      | -             |
| naphthalene                 | PNEC | Fresh water            | 2.4 µg/l       | -             |
|                             | PNEC | Marine                 | 0.24 µg/l      | -             |
|                             | PNEC | Sewage Treatment Plant | 2.9 mg/l       | -             |
|                             | PNEC | Fresh water sediment   | 67.2 µg/kg dwt | -             |
|                             | PNEC | Marine water sediment  | 67.2 µg/kg dwt | -             |
|                             | PNEC | Soil                   | 53.3 µg/kg dwt | -             |

**8.2 Exposure controls**

**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.

**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. Recommended: splash goggles

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Viton®  
1 - 4 hours (breakthrough time): nitrile rubber

**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: organic vapour (Type A) and particulate filter

**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.

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**SECTION 8: Exposure controls/personal protection****SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**Appearance

|   |  |
|---|--|
| <b>Physical state</b>                               | : Liquid. [Clear.]   |
| <b>Colour</b>                                       | : Brown. [Dark]  |
| <b>Odour</b>  | : Hydrocarbon.   |
| <b>Odour threshold</b>                              | : Not available.   |
| <b>pH</b>   | : Not applicable.  |
| <b>Melting point/freezing point</b>                 | : <-40°C   |
| <b>Initial boiling point and boiling range</b>      | : >180°C (>356°F)  |
| <b>Flash point</b>                                  | : Closed cup: >60°C (>140°F) [DIN EN ISO 2719]   |
| <b>Evaporation rate</b>                             | : Highest known value: 0.05 (Solvent naphtha (petroleum), heavy arom.)<br>Weighted average: 0.03 compared with butyl acetate                       |
| <b>Flammability (solid, gas)</b>                    | : Not available.   |
| <b>Burning time</b>                                 | : Not applicable.  |
| <b>Burning rate</b>                                 | : Not applicable.  |
| <b>Upper/lower flammability or explosive limits</b> | : Greatest known range: Lower: 0.6% Upper: 7% (Hydrocarbons, C11-C13, isoalkanes, <2% aromatics)   |
| <b>Vapour pressure</b>                              | : Highest known value: 0.1 kPa (0.8 mm Hg) (at 20°C) (Solvent naphtha (petroleum), heavy arom.). Weighted average: 0.06 kPa (0.45 mm Hg) (at 20°C) |
| <b>Vapour density</b>                               | : Highest known value: 5.6 (Air = 1) (Hydrocarbons, C11-C13, isoalkanes, <2% aromatics). Weighted average: 5.59 (Air = 1)                          |
| <b>Relative density</b>                             | : Not available.   |
| <b>Density</b>                                      | : 0.85 g/cm <sup>3</sup> [15°C (59°F)]   |
| <b>Solubility(ies)</b>                              | :  |
| <b>Partition coefficient: n-octanol/ water</b>      | : Not applicable.  |
| <b>Auto-ignition temperature</b>                    | : Lowest known value: >200°C (>392°F) (Hydrocarbons, C11-C13, isoalkanes, <2% aromatics).  |
| <b>Decomposition temperature</b>                    | : Not available.   |
| <b>Viscosity</b>                                    | : Kinematic (40°C (104°F)): 3.2 mm <sup>2</sup> /s (3.2 cSt)   |
| <b>Explosive properties</b>                         | : Not available.   |
| <b>Oxidising properties</b>                         | : Not available.   |
| <u><b>Particle characteristics</b></u>              |  |
| <b>Median particle size</b>                         | : Not applicable.  |

**9.2 Other information**

|                   |          |
|-------------------|----------|
| <b>Pour point</b> | : <-39°C |
|-------------------|----------|

**SECTION 10: Stability and reactivity**

|  |  |
|--|--|
| <b>10.1 Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients. |
| <b>10.2 Chemical stability</b>                 | : The product is stable.   |
| <b>10.3 Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.            |

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## SECTION 10: Stability and reactivity

**10.4 Conditions to avoid** : No specific data.

**10.5 Incompatible materials** : Reactive or incompatible with the following materials:  
oxidising materials

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

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

| Product/ingredient name  | Test  | Species             | Result type            | Dose                   |
|--|---|---------------------|------------------------|------------------------|
| Hydrocarbons, C11-C13, isoalkanes, <2% aromatics   | -   | Mammal              | LD50 Dermal            | >3160 mg/kg            |
|  | -   | species unspecified |                        |                        |
| 1,1'-Bis-(ferrocenyl)octane  | OECD 402 Acute Dermal Toxicity                          | Rat - Male, Female  | LD50 Dermal            | >2000 mg/kg            |
|  | OECD 423 Acute Oral toxicity - Acute Toxic Class Method | Rat - Male, Female  | LD50 Oral              | >2000 mg/kg            |
| Hydrocarbons, C10, aromatics, >1% naphthalene [Solvent naphtha (petroleum), heavy arom.] | -   | Rat                 | LC50 Inhalation Vapour | >590 mg/m <sup>3</sup> |
|  | -   | Rabbit              | LD50 Dermal            | >2 mL/kg               |
| naphthalene  | -   | Rabbit              | LD50 Dermal            | >2000 mg/kg            |
|  | -   | Rat                 | LDLo Oral              | 5 mL/kg                |
| maleic anhydride   | -   | Rat                 | LC50 Inhalation Vapour | >340 mg/m <sup>3</sup> |
|  | -   | Rabbit              | LD50 Dermal            | >2000 mg/kg            |
| -  | -   | Rat                 | LD50 Oral              | 490 mg/kg              |
| -  | -   | Rabbit              | LD50 Dermal            | 2620 mg/kg             |
| -  | -   | Rat                 | LD50 Oral              | 400 mg/kg              |

#### Irritation/Corrosion

| Product/ingredient name  | Test | Species                      | Result                   |
|--|------|------------------------------|--------------------------|
| Hydrocarbons, C10, aromatics, >1% naphthalene [Solvent naphtha (petroleum), heavy arom.] | -    | Mammal - species unspecified | Eyes - Mild irritant -   |
|  | -    | Rabbit                       | Skin - Mild irritant -   |
| maleic anhydride   | -    | Rabbit                       | Eyes - Severe irritant - |

#### Sensitisation

| Product/ingredient name     | Test                        | Species    | Result            |
|-----------------------------|-----------------------------|------------|-------------------|
| 1,1'-Bis-(ferrocenyl)octane | OECD 406 Skin Sensitization | Guinea pig | Not sensitizing - |

#### Potential chronic health effects

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**SECTION 11: Toxicological information**

| Product/ingredient name     | Test | Species | Result             | Dose  |
|-----------------------------|------|---------|--------------------|---|
| 1,1'-Bis-(ferrocenyl)octane | -    | Rat     | Chronic LOAEL Oral | 5 mg/kg (read across from similar material) |

**Mutagenicity**

| Product/ingredient name     | Test   | Experiment  | Result  |
|-----------------------------|--|---|---|
| 1,1'-Bis-(ferrocenyl)octane | OECD 471 Bacterial Reverse Mutation Test         | Experiment: In vitro<br>Subject: Bacteria<br>Metabolic activation: No | Negative OECD 471 Bacterial Reverse Mutation Test         |
|                             | OECD 474 Mammalian Erythrocyte Micronucleus Test | Experiment: In vivo<br>Subject: Mammalian-Animal                      | Negative OECD 474 Mammalian Erythrocyte Micronucleus Test |

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

| Product/ingredient name  | Category   | Route of exposure | Target organs    |
|--|------------|-------------------|------------------|
| Hydrocarbons, C10, aromatics, >1% naphthalene [Solvent naphtha (petroleum), heavy arom.] | Category 3 | -                 | Narcotic effects |

**Information on likely routes of exposure** : Not available.

**Potential acute health effects**

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : May be fatal if swallowed and enters airways.

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

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
dryness  
cracking  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

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

**Short term exposure**

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## SECTION 11: Toxicological information

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**General** : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

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

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

**Teratogenicity** : May damage the unborn child.

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

**Fertility effects** : May damage fertility.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

No known significant effects or critical hazards.

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name  | Test   | Species  | Exposure | Result                             |
|--|--|--|----------|------------------------------------|
| 1,1'-Bis-(ferrocenyl)octane  | OECD 209 Activated Sludge, Respiration Inhibition Test | Micro-organism - Activated sludge                                  | 3 hours  | Acute EC50 >1000 mg/l              |
|  | OECD 201 Alga, Growth Inhibition Test                  | Algae  | 72 hours | Acute NOEC >0.36 mg/l              |
|  | OECD 202 Daphnia sp. Acute Immobilisation Test         | Daphnia  | 48 hours | Acute NOEC >0.36 mg/l              |
|  | OECD 203 Fish, Acute Toxicity Test                     | Fish - Juvenile (Fledgling, Hatchling, Weanling)                   | 96 hours | Acute NOEC >0.5 mg/l               |
| Hydrocarbons, C10, aromatics, >1% naphthalene [Solvent naphtha (petroleum), heavy arom.] | -  | Algae  | 72 hours | Acute EC50 1 to 3 mg/l             |
|  | -  | Daphnia  | 48 hours | Acute EC50 3 to 10 mg/l            |
|  | -  | Fish   | 96 hours | Acute LC50 2 to 5 mg/l             |
| naphthalene  | -  | Daphnia - Water flea - <i>Daphnia magna</i>                        | 48 hours | Acute EC50 1.96 mg/l Fresh water   |
|  | -  | Crustaceans - Daggerblade grass shrimp - <i>Palaemonetes pugio</i> | 48 hours | Acute LC50 2350 µg/l Marine water  |
|  | -  | Fish - Oncorhynchus mykiss   | 96 hours | Acute LC50 1.6 mg/l                |
|  | -  | Crustaceans - Fiddler crab - <i>Uca pugnax</i> - Adult             | 3 weeks  | Chronic NOEC 0.5 mg/l Marine water |
|  | -  | Fish - Mozambique tilapia - <i>Oreochromis</i>                     | 60 days  | Chronic NOEC 1.5 mg/l Fresh water  |
|  | -  |  |          |                                    |

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## SECTION 12: Ecological information

|                  |   |  |             |                                   |
|------------------|---|--|-------------|-----------------------------------|
| maleic anhydride | - | <i>mossambicus</i><br>Fish - Western<br>mosquitofish -<br><i>Gambusia affinis</i> -<br>Adult | 96<br>hours | Acute LC50 230 ppm<br>Fresh water |
|------------------|---|--|-------------|-----------------------------------|

### 12.2 Persistence and degradability

| Product/ingredient name     | Test  | Result                      |
|-----------------------------|---|-----------------------------|
| 1,1'-Bis-(ferrocenyl)octane | OECD 301D Ready Biodegradability - Closed Bottle Test | 3 % - Not readily - 28 days |

| Product/ingredient name  | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| Hydrocarbons, C11-C13,<br>isoalkanes, <2% aromatics  | -                 | -          | Readily          |
| 1,1'-Bis-(ferrocenyl)octane  | -                 | -          | Not readily      |
| Hydrocarbons, C10,<br>aromatics, >1%<br>naphthalene [Solvent<br>naphtha (petroleum), heavy<br>arom.] | -                 | -          | Inherent         |

### 12.3 Bioaccumulative potential

| Product/ingredient name  | LogP <sub>ow</sub> | BCF         | Potential |
|--|--------------------|-------------|-----------|
| 1,1'-Bis-(ferrocenyl)octane  | 4.6                | -           | High      |
| Hydrocarbons, C10,<br>aromatics, >1%<br>naphthalene [Solvent<br>naphtha (petroleum), heavy<br>arom.] | -                  | <100        | Low       |
| naphthalene  | 3.4                | 36.5 to 168 | Low       |
| maleic anhydride   | -2.78              | -           | Low       |

### 12.4 Mobility in soil

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

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

### 12.6 Endocrine disrupting properties

No known significant effects or critical hazards.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

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## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : 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.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special 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 spill material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|  | ADR/RID        | ADN   | IMDG           | IATA           |
|--|----------------|---|----------------|----------------|
| 14.1 UN number   | Not regulated. | 9006  | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name                                 | -              | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                                 | -              | -              |
| 14.3 Transport hazard class(es)                              | -              | 9   | -              | -              |
| 14.4 Packing group   | -              | -   | -              | -              |
| 14.5 Environmental hazards                                   | No.            | Yes.  | No.            | No.            |
| Additional information                                       | -              | The product is only regulated as a dangerous good when transported in tank vessels. | -              |                |
| 14.6 Special precautions for user                            |                |   |                |                |
| 14.7 Maritime transport in bulk according to IMO instruments |                |   |                |                |

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

#### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product/ingredient name     | %         | Designation [Usage] |
|-----------------------------|-----------|---------------------|
| satacen® 3                  | ≥90       | 3<br>30             |
| 1,1'-Bis-(ferrocenyl)octane | ≥10 - ≤25 | 30                  |

**Labelling** : Restricted to professional users.

#### Other EU regulations

**VOC** : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

**VOC for Ready-for-Use Mixture** : Not available.

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

**Explosive precursors** : Not applicable.

#### Ozone depleting substances (1005/2009/EU)

Not listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### Persistent Organic Pollutants

Not listed.

#### National regulations

| Product/ingredient name | List name                                | Name on list | Classification | Notes |
|-------------------------|--|--------------|----------------|-------|
| naphthalene             | Switzerland Occupational Exposure Limits | Naphthalin   | Carc. C2       | -     |

**VOC content** :VOC (w/w): 75.8%

**Chemical Weapons Convention List Schedule I Chemicals** :Not listed

**Chemical Weapons Convention List Schedule II Chemicals** :Not listed

**Chemical Weapons Convention List Schedule III Chemicals** :Not listed

#### International lists



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## SECTION 15: Regulatory information

|   |   |
|---|---|
| <b>Australia inventory (AIC)</b>                  | :All components are listed or exempted.   |
| <b>Canada inventory</b>                           | :Please contact your supplier for information on the inventory status of this material. |
| <b>China inventory (IECSC)</b>                    | :At least one component is not listed.  |
| <b>Japan inventory</b>                            | :Not determined.  |
| <b>Korea REACH Status</b>                         | :Please contact your supplier for information on the REACH status of this material.     |
| <b>New Zealand Inventory of Chemicals (NZIoC)</b> | :All components are listed or exempted.   |
| <b>Philippines inventory (PICCS)</b>              | :At least one component is not listed.  |
| <b>Taiwan REACH Status</b>                        | :Please contact your supplier for information on the REACH status of this material.     |
| <b>Turkey REACH Status</b>                        | :Please contact your supplier for information on the REACH status of this material.     |
| <b>United States inventory (TSCA 8b)</b>          | :Please contact your supplier for information on the inventory status of this material. |

### 15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.  
Not to be used for hydraulic fracking applications

## SECTION 16: Other information

|                                   |   |
|-----------------------------------|---|
| <b>Abbreviations and acronyms</b> | : ATE = Acute Toxicity Estimate<br>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]<br>DNEL = Derived No Effect Level<br>EUH statement = CLP-specific Hazard statement<br>PNEC = Predicted No Effect Concentration<br>RRN = REACH Registration Number |
|-----------------------------------|---|

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification          | Justification      |
|-------------------------|--------------------|
| Repr. 1B, H360FD        | Calculation method |
| STOT RE 2, H373         | Calculation method |
| Asp. Tox. 1, H304       | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

|  |  |
|--|--|
| <b>Full text of abbreviated H statements</b> | : H302 Harmful if swallowed.<br>H304 May be fatal if swallowed and enters airways.<br>H314 Causes severe skin burns and eye damage.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br>H336 May cause drowsiness or dizziness.<br>H351 Suspected of causing cancer.<br>H360FD May damage fertility. May damage the unborn child.<br>H372 Causes damage to organs through prolonged or repeated exposure.<br>H373 May cause damage to organs through prolonged or repeated exposure.<br>H400 Very toxic to aquatic life.<br>H410 Very toxic to aquatic life with long lasting effects.<br>H411 Toxic to aquatic life with long lasting effects.<br>H412 Harmful to aquatic life with long lasting effects. |
|--|--|

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**SECTION 16: Other information**

H413 May cause long lasting harmful effects to aquatic life.  
 EUH066 Repeated exposure may cause skin dryness or cracking.  
 EUH071 Corrosive to the respiratory tract.

|   |   |   |
|---|---|---|
| <b>Full text of classifications [CLP/GHS]</b> | : Acute Tox. 4  | ACUTE TOXICITY - Category 4                                     |
|   | Aquatic Acute 1   | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1                  |
|   | Aquatic Chronic 1   | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1                 |
|   | Aquatic Chronic 2   | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2                 |
|   | Aquatic Chronic 3   | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                 |
|   | Aquatic Chronic 4   | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4                 |
|   | Asp. Tox. 1   | ASPIRATION HAZARD - Category 1                                  |
|   | Carc. 2   | CARCINOGENICITY - Category 2                                    |
|   | Eye Dam. 1  | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1                  |
|   | Repr. 1B  | REPRODUCTIVE TOXICITY - Category 1B                             |
|   | Resp. Sens. 1   | RESPIRATORY SENSITISATION - Category 1                          |
|   | Skin Corr. 1B   | SKIN CORROSION/IRRITATION - Category 1B                         |
|   | Skin Sens. 1A   | SKIN SENSITISATION - Category 1A                                |
|   | STOT RE 1   | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |
| STOT RE 2                                     | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |   |
| STOT SE 3                                     | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3   |   |

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**Emergency contact numbers for local language support in Asia Pacific region**

| <b>Country information</b>         | <b>Languages supported</b> | <b>Telephone no.:</b> | <b>Location</b> |
|------------------------------------|----------------------------|-----------------------|-----------------|
| Australia                          | English                    | +61 2 8014 4558       | Australia       |
| Bangladesh                         | Bengali, English           | +65 3158 1200         | Singapore       |
| China                              | Mandarin, English          | 400 120 6011          | Beijing China   |
| India                              | Hindi, English             | +65 3158 1198         | Singapore       |
| India ( local toll free number )   | Hindi, English             | 000800 100 7479       | India           |
| Indonesia (local toll free number) | Bahasa Indonesian, English | 00780 3011 0293       | Indonesia       |
| Japan                              | Japanese, English          | +81 3 4578 9341       | Japan           |
| Korea                              | Korean, English            | +65 3158 1285         | Singapore       |
| Malaysia                           | Bahasa Malaysian, English  | +60 3 6207 4347       | Malaysia        |
| New Zealand                        | English                    | +64 9929 1483         | New Zealand     |
| Pakistan                           | Urdu, English              | +65 3158 1329         | Singapore       |
| Philippines                        | Tagalog, English           | +63 2 8231 2149       | Singapore       |
| Sri Lanka                          | Sinhalese, English         | +65 3158 1195         | Singapore       |
| Thailand (local toll free number)  | Thai, English              | 001800 1 2066 6751    | Thailand        |
| Vietnam                            | Vietnamese, English        | +65 3158 1255         | Singapore       |

**Notice to reader**

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## SECTION 16: Other information

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.