

## SAFETY DATA SHEET



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

#### 1.1 Product identifier

|                           |                     |
|---------------------------|---------------------|
| Product name              | Castrol Radicool SF |
| Product code              | 467414-TR01         |
| SDS no.                   | 467414              |
| Original preparation date | 28/01/2020          |
| Product type              | Liquid.             |

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

|                                  |  |
|----------------------------------|--|
| Use of the substance/<br>mixture | Coolant and antifreeze.<br>For specific application advice see appropriate Technical Data Sheet or consult our company representative. |
|----------------------------------|--|

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

|                |   |
|----------------|---|
| Supplier       | Castrol Madeni Yağlar Ticaret A.Ş<br>İçerenköy Mah. Değirmen Yolu Cad. Mengerler Blok No: 28/1 İç Kapı No: 12 Ataşehir/İstanbul |
| E-mail address | MSDSadvice@bp.com   |

#### 1.4 Emergency telephone number

|                               |   |
|-------------------------------|---|
| EMERGENCY<br>TELEPHONE NUMBER | CASTROL DIRECT 0212 473 77 37<br>Carechem: +44 (0) 1235 239 670 (24/7)<br>Ministry of Health National Poison Information Centre: 114 (24 hours) |
|-------------------------------|---|

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to regulation SEA: RG.-10/12/2020-31330

Acute Tox. 4, H302  
Repr. 2, H361d  
STOT RE 2, H373

The product is classified as hazardous according to Regulation SEA: RG.-10/12/2020-31330.

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

Warning

##### Hazard statements

H302 - Harmful if swallowed.  
H361d - Suspected of damaging the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.

##### Precautionary statements

###### General

P102 - Keep out of reach of children.  
P101 - If medical advice is needed, have product container or label at hand.

###### Prevention

P201 - Obtain special instructions before use.  
P280 - Wear protective gloves, protective clothing and eye or face protection.  
P260 - Do not breathe vapour.  
P270 - Do not eat, drink or smoke when using this product.  
P264 - Wash hands thoroughly after handling.

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Language ENGLISH

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## SECTION 2: Hazards identification

|   |  |
|---|--|
| <b>Response</b>   | P308 + P313 - IF exposed or concerned: Get medical attention.<br>P301 + P312, P330 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. |
| <b>Storage</b>  | P405 - Store locked up.  |
| <b>Disposal</b>   | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.   |
| <b>Hazardous ingredients</b>  | <p>ethanediol</p> <p>sodium 2-ethylhexanoate</p>   |
| <b>Supplemental label elements</b>  | Not applicable.  |
| <b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b> | Not applicable.  |
| <b>Special packaging requirements</b>   |  |
| <b>Containers to be fitted with child-resistant fastenings</b>  | Not applicable.  |
| <b>Tactile warning of danger</b>  | Yes, applicable.   |

### 2.3 Other hazards

|  |   |
|--|---|
| <b>Product meets the criteria for PBT or vPvB</b>          | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| <b>Other hazards which do not result in classification</b> | None known.   |

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures Mixture

Ethylene glycol Corrosion inhibitor.

| Product/ingredient name | Identifiers   | %   | SEA: RG.-10/12/2020-31330                                       | Type    |
|-------------------------|---|-----|---|---------|
| ethanediol              | EC: 203-473-3<br>CAS: 107-21-1<br>Index: 603-027-00-1 | ≥90 | Acute Tox. 4, H302<br>STOT RE 2, H373 (kidneys) (oral)          | [1] [2] |
| sodium 2-ethylhexanoate | EC: 243-283-8<br>CAS: 19766-89-3                      | ≤5  | Repr. 2, H361d  | [1]     |
| methyl-1H-benzotriazole | EC: 249-596-6<br>CAS: 29385-43-1                      | <1  | Acute Tox. 4, H302<br>Repr. 2, H361d<br>Aquatic Chronic 2, H411 | [1]     |

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

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.

#### 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.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                   |  |
|-------------------|--|
| <b>Inhalation</b> | If inhaled, remove to fresh air. Get medical attention.  |
| <b>Ingestion</b>  | If ingested, call a physician or Poison Control Center immediately. Get medical attention urgently informing the doctor that a product containing ethylene glycol has been ingested and specific treatment may be required. Transport casualty together with the product container, its label, or the safety data sheet urgently to hospital. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. |

## SECTION 4: First aid measures

|                                   |   |
|-----------------------------------|---|
| <b>Skin contact</b>               | In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention.                     |
| <b>Eye contact</b>                | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention if symptoms occur. |
| <b>Protection of first-aiders</b> | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.  |

### 4.2 Most important symptoms and effects, both acute and delayed

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

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

#### Notes to physician

**Specific treatments** Ethylene Glycol: Gastric irrigation, ethanol or fomepizole may have value in treatment. Consult physician.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide extinguisher or spray.

**Unsuitable extinguishing media** Do not use water jet.

### 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.

**Hazardous combustion products** Combustion products may include the following:  
metal oxide/oxides  
carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

**Special protective equipment for fire-fighters** Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. 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** Contact 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. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

**For emergency responders** Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. 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).

### 6.3 Methods and material for containment and cleaning up

**Small spill** Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## SECTION 6: Accidental release measures

### 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. 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. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

See Section 1 for emergency contact information.  
See Section 5 for firefighting measures.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 12 for environmental precautions.  
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 ingest. 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. Wash thoroughly after handling. 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

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. Store and use only in equipment/containers designed for use with this product. 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.

#### Not suitable

Prolonged exposure to elevated temperature

### 7.3 Specific end use(s)

#### Recommendations

Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ethylene glycol

#### TR ISGGM OEL (Turkey). Absorbed through skin.

TWA: 52 mg/m<sup>3</sup> 8 hours. Issued/Revised: 12/2003

TWA: 20 ppm 8 hours. Issued/Revised: 12/2003

STEL: 104 mg/m<sup>3</sup> 15 minutes. Issued/Revised: 12/2003

STEL: 40 ppm 15 minutes. Issued/Revised: 12/2003

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

#### Biological exposure indices

No exposure indices known.

#### 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

## SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Type | Exposure             | Value                 | Population         | Effects  |
|-------------------------|------|----------------------|-----------------------|--------------------|----------|
| Ethanediol              | DNEL | Long term Inhalation | 35 mg/m <sup>3</sup>  | Workers            | Local    |
|                         | DNEL | Long term Dermal     | 106 mg/kg bw/day      | Workers            | Systemic |
| sodium 2-ethylhexanoate | DNEL | Long term Inhalation | 7 mg/m <sup>3</sup>   | General population | Local    |
|                         | DNEL | Long term Dermal     | 53 mg/kg bw/day       | General population | Systemic |
|                         | DNEL | Long term Inhalation | 14 mg/m <sup>3</sup>  | Workers            | Systemic |
|                         | DNEL | Long term Dermal     | 2 mg/kg bw/day        | Workers            | Systemic |
|                         | DNEL | Long term Inhalation | 3.5 mg/m <sup>3</sup> | General population | Systemic |
|                         | DNEL | Long term Dermal     | 1 mg/kg bw/day        | General population | Systemic |
|                         | DNEL | Long term Oral       | 1 mg/kg bw/day        | General population | Systemic |

### PNECs

| Product/ingredient name | Compartment Detail | Value      | Method Detail |
|-------------------------|--------------------|------------|---------------|
| sodium 2-ethylhexanoate | Fresh water        | 0.36 mg/l  | -             |
|                         | Marine water       | 0.036 mg/l | -             |

## 8.2 Exposure controls

### Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

### 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.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

#### Eye/face protection

Safety glasses with side shields.

#### Skin protection

##### Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Butyl gloves. Neoprene gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

##### Skin and body

Use of protective clothing is good industrial practice.

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.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

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## SECTION 8: Exposure controls/personal protection

### 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.

## SECTION 9: Physical and chemical properties

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

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state

Liquid.

Colour

Red. [Light]

Odour

Mild.

Odour threshold

Not available.

pH

7.5 to 9 [Conc. (% w/w): 50%]

Melting point/freezing point

Not available.

Initial boiling point and boiling range

175°C (347°F)

Flash point

| Ingredient name | Closed cup |       |        | Open cup |    |        |
|-----------------|------------|-------|--------|----------|----|--------|
|                 | °C         | °F    | Method | °C       | °F | Method |
| ethanediol      | 111        | 231.8 |        |          |    |        |

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable. Based on - Physical state

Upper/lower flammability or explosive limits

Not available.

Vapour pressure

| Ingredient name         | Vapour Pressure at 20°C |               |        | Vapour pressure at 50°C |               |        |
|-------------------------|-------------------------|---------------|--------|-------------------------|---------------|--------|
|                         | mm Hg                   | kPa           | Method | mm Hg                   | kPa           | Method |
| ethanediol              | 0.09                    | 0.012         |        |                         |               |        |
| Sodium 2-ethylhexanoate | <0.000000008            | <0.0000000011 |        | <0.000000008            | <0.0000000011 |        |
| Water                   | 23.8                    | 3.2           |        |                         |               |        |

Vapour density

Not available.

Relative density

Not available.

Density

1100 kg/m<sup>3</sup> (1.1 g/cm<sup>3</sup>) at 15.6°C

Solubility(ies)

| Media | Result             |
|-------|--------------------|
| water | Miscible in water. |

Partition coefficient: n-octanol/ water

Not applicable.

Auto-ignition temperature

| Ingredient name | °C  | °F    | Method |
|-----------------|-----|-------|--------|
| ethanediol      | 398 | 748.4 |        |

Decomposition temperature

Not available.

Viscosity

Not available.

Explosive properties

Not available.

Oxidising properties

Not available.

#### Particle characteristics

Median particle size

Not applicable.

### 9.2 Other information

No additional information.

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## SECTION 10: Stability and reactivity

- 10.1 Reactivity** No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
- 10.2 Chemical stability** The product is stable.
- 10.3 Possibility of hazardous reactions** Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
- 10.4 Conditions to avoid** Avoid excessive heat.
- 10.5 Incompatible materials** Reactive or incompatible with the following materials: oxidising materials. Hazardous reactions are possible with concentrated mineral acids, strong oxidizing agents, alkali metals and isocyanates. Combustible material.
- 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 toxicological effects

#### Acute toxicity estimates

| Route | ATE value   |
|-------|-------------|
| Oral  | 549.2 mg/kg |

**Information on likely routes of exposure** Routes of entry anticipated: Dermal, Inhalation, Eyes.

#### Potential acute health effects

- Inhalation** Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.
- Ingestion** Harmful if swallowed. Ethylene glycol: Ingestion of ethylene glycol can cause metabolic acidosis, kidney damage, central nervous system depression, and convulsions. The estimated human lethal dose is approximately 100 ml (3.4 ounces for an adult).
- Skin contact** No known significant effects or critical hazards.
- Eye contact** No known significant effects or critical hazards.

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

- Inhalation** May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.
- Ingestion** Adverse symptoms may include the following:  
nausea or vomiting  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Skin contact** Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Eye contact** No specific data.

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

- Inhalation** Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
- Ingestion** Ingestion of large quantities may cause nausea and diarrhoea.
- Skin contact** Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
- Eye contact** Potential risk of transient stinging or redness if accidental eye contact occurs.

#### Potential chronic health effects

- General** May cause damage to organs through prolonged or repeated exposure. (kidney)
- Carcinogenicity** No known significant effects or critical hazards.
- Mutagenicity** No known significant effects or critical hazards.
- Developmental effects** Birth defects and decreased fetal weight have been observed in laboratory animals fed ethylene glycol in large amounts repeatedly during pregnancy.
- Fertility effects** No known significant effects or critical hazards.

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Environmental hazards** Not classified as dangerous

### 12.2 Persistence and degradability

Expected to be biodegradable.

### 12.3 Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

### 12.4 Mobility in soil

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

**Mobility** Spillages may penetrate the soil causing ground water contamination.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Other adverse effects

**Other ecological information** Miscible in water.

## SECTION 13: Disposal considerations

### 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** Yes.

#### Waste list

| Waste code | Waste code definition                             |
|------------|---|
| 16 01 14*  | antifreeze fluids containing hazardous substances |

#### 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

#### Other information

Undiluted fluid Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

Diluted Fluid Diluted fluid should not be discharged into sewage systems unless provided for by local regulations. Dispose under conditions approved by the local authority or via a licensed waste disposal contractor.

## SECTION 14: Transport information

|  | ADR/RID        | ADN            | IMDG           | IATA           |
|--|----------------|----------------|----------------|----------------|
| <b>14.1 UN number</b>                  | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| <b>14.2 UN proper shipping name</b>    | -              | -              | -              | -              |
| <b>14.3 Transport hazard class(es)</b> | -              | -              | -              | -              |



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## SECTION 14: Transport information

|                            |     |     |     |     |
|----------------------------|-----|-----|-----|-----|
| 14.4 Packing group         | -   | -   | -   | -   |
| 14.5 Environmental hazards | No. | No. | No. | No. |
| Additional information     | -   | -   | -   | -   |

14.6 Special precautions for user Not available.

14.7 Transport in bulk according to IMO instruments Not available.

## SECTION 15: Regulatory information

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

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

#### 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.

#### Regulation on the prevention of major industrial accidents and reduction of their effects

This product is not controlled under the Regulation on the prevention of major industrial accidents and reduction of their effects.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** Not applicable.

#### National inventory

**Australia inventory (AIC)** All components are listed or exempted.

**Canada inventory** All components are listed or exempted.

**China inventory (IECSC)** All components are listed or exempted.

**Japan inventory (CSCL)** All components are listed or exempted.

**Korea inventory (KECI)** All components are listed or exempted.

**Philippines inventory (PICCS)** All components are listed or exempted.

**REACH Status** For the REACH status of this product please consult your company contact, as identified in Section 1.

**Taiwan Chemical Substances Inventory (TCSI)** All components are listed or exempted.

**United States inventory (TSCA 8b)** Not determined.

15.2 Chemical safety assessment This product contains substances for which Chemical Safety Assessments are still required.

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## SECTION 16: Other information

### Abbreviations and acronyms

ACGIH = American Conference of Industrial Hygienists  
 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 CAS = Chemical Abstracts Service  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 OECD = Organisation for Economic Co-operation and Development  
 PBT = Persistent, Bioaccumulative and Toxic  
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
 SADT = Self-Accelerating Decomposition Temperature  
 STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
 STOT-SE = Specific Target Organ Toxicity - Single Exposure  
 TWA = Time weighted average  
 UN = United Nations  
 UVCB = Complex hydrocarbon substance  
 VOC = Volatile Organic Compound  
 vPvB = Very Persistent and Very Bioaccumulative  
 Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

### Full text of abbreviated H statements

H302 Harmful if swallowed.  
 H361d Suspected of damaging the unborn child.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.

### Full text of classifications [CLP/GHS]

Acute Tox. 4 ACUTE TOXICITY - Category 4  
 Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2  
 Repr. 2 REPRODUCTIVE TOXICITY - Category 2  
 STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

### History

**Date of issue/ Date of revision**

17 August 2023

**Date of previous issue**

6 July 2023.

**Prepared by**

Product Stewardship

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Indicates information that has changed from previously issued version.

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