

Revision date 2024-Aug-27

Revision number 1.04

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

### 1.1. Product identifier

**Product code** 760052  
**Product name** GEOLube<sup>®</sup> SL 220  
**Synonyms** None

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

**Recommended use [RU]** Lubricant  
**Uses advised against** No information available

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

**Supplier** GEO Specialty Chemicals UK Ltd  
Charleston Road, Hardley, Hythe  
Southampton, Hampshire SO45 3ZG  
United Kingdom  
Phone: +44 (0)23 80894666  
Fax No: +44 (0)23 80243113

**Responsibility Statement** For further information, please contact [safety-data-sheet-fp@geosc.com](mailto:safety-data-sheet-fp@geosc.com)

### 1.4. Emergency telephone number

**Emergency telephone** GEO Specialty Chemicals UK Ltd  
+44 (0)23 80891806 24 Hour Emergency Phone Number

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

|                                 |                     |
|---------------------------------|---------------------|
| <b>Chronic aquatic toxicity</b> | Category 2 - (H411) |
|---------------------------------|---------------------|

### 2.2. Label elements



Warning  
H411 - Toxic to aquatic life with long lasting effects

EUH208 - N-1-naphthylaniline May produce an allergic reaction  
 P273 - Avoid release to the environment  
 P391 - Collect spillage  
 P501 - Dispose of contents/ container to an approved waste disposal plant

0.4175 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 82.4175 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 97.4175 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 97.4175 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 97.4175 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)  
 Contains 0.4175 % of components with unknown hazards to the aquatic environment

### 2.3. Other hazards

No information available

This product does not contain any known or suspected endocrine disruptors

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

| Chemical name   | Weight-%        | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                    | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---|-----------------|---------------------------|---------------------|--|------------------------------------|----------|----------------------|
| N-1-Naphthylaniline<br>90-30-2  | >= 0.1 - < 0.25 | -                         | 201-983-0           | Acute Tox. 4 (H302)<br>Skin Sens. 1 (H317)<br>STOT RE 2 (H373)<br>Aquatic Chronic 1 (H410) (M = 1) | -                                  | -        | -                    |
| O,O,O-triphenyl phosphorothioate<br>597-82-0  | >0.1 - <=0.5    | -                         | 209-909-9           | Aquatic Chronic 1 (H410) (M=10)  | -                                  | -        | -                    |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene<br>68411-46-1 | >0.1 - <=0.5    | -                         | 270-128-1           | Repr. 2 (H361f)  | -                                  | -        | -                    |

Full text of H- and EUH-phrases: see section 16

### Acute Toxicity Estimate

No information available.

| Chemical name                  | Oral LD50 mg/kg   | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|--------------------------------|-------------------|-------------------|---|---|--------------------------------------|
| N-1-Naphthylaniline<br>90-30-2 | 1625              | 8000              | No data available                           | No data available                       | No data available                    |
| O,O,O-triphenyl                | No data available | 2000              | No data available                           | No data available                       | No data available                    |

| Chemical name  | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|--|-----------------|-------------------|---|---|--------------------------------------|
| phosphorothioate 597-82-0  |                 |                   |   |   |                                      |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1 | 5000            | 2000              | No data available                           | No data available                       | No data available                    |

**Statements of hazard**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59).

**SECTION 4: First aid measures****4.1. Description of first aid measures**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Remove to fresh air. If breathing is difficult, give oxygen. Seek immediate medical attention/advice.                           |
| <b>Eye contact</b>  | Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. |
| <b>Skin contact</b> | Wash with plenty of water and soap. Remove contaminated clothing and shoes.   |
| <b>Ingestion</b>    | Rinse mouth thoroughly with water. Drink plenty of water.   |

**4.2. Most important symptoms and effects, both acute and delayed**

|                 |                           |
|-----------------|---------------------------|
| <b>Symptoms</b> | No information available. |
|-----------------|---------------------------|

**4.3. Indication of any immediate medical attention and special treatment needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Note to physicians</b> | Treat symptomatically. |
|---------------------------|------------------------|

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

|                                       |   |
|---------------------------------------|---|
| <b>Suitable Extinguishing Media</b>   | Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam. |
| <b>Large Fire</b>                     | CAUTION: Use of water spray when fighting fire may be inefficient.                    |
| <b>Unsuitable extinguishing media</b> | Do not scatter spilled material with high pressure water streams.                     |

**5.2. Special hazards arising from the substance or mixture**

|   |   |
|---|---|
| <b>Specific hazards arising from the chemical</b> | In the event of fire and/or explosion do not breathe fumes. |
|---|---|

|                                      |                    |
|--------------------------------------|--------------------|
| <b>Hazardous combustion products</b> | Irritating vapors. |
|--------------------------------------|--------------------|

**5.3. Advice for firefighters**

|   |   |
|---|---|
| <b>Special protective equipment and precautions for fire-fighters</b> | In case of fire, keep containers cool with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
|---|---|

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Wear suitable protective clothing and gloves. Use suitable breathing apparatus.

**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

**Environmental precautions** Prevent fire extinguishing water from contaminating surface water or the ground water system. Do not empty into drains/surface water/ground water.

**6.3. Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material. Dispose of contaminated material as waste according to Section 13.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

**Advice on safe handling** Use only in well-ventilated areas. Avoid contact with eyes, skin and clothing. Avoid generation of aerosols/mist. Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors. Take precautionary measures against static discharge.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Do not store together with oxidants. Do not store together with reductants. Store in a dry place. Keep container tightly closed in a cool place.

**7.3. Specific end use(s)**

**Risk management measures** The information required is contained in this Material Safety Data Sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure Limits**

| Chemical name                    | France | Germany TRGS              | Germany DFG   | Greece | Hungary |
|----------------------------------|--------|---------------------------|---|--------|---------|
| O,O,O-triphenyl phosphorothioate | -      | TWA: 20 mg/m <sup>3</sup> | TWA: 20 mg/m <sup>3</sup><br>Peak: 40 mg/m <sup>3</sup> | -      | -       |

|                                |   |                                 |  |   |   |
|--------------------------------|---|---------------------------------|--|---|---|
| 597-82-0                       |   |                                 |  |   |   |
| N-1-Naphthylaniline<br>90-30-2 | - | TWA: 2 mg/m <sup>3</sup><br>Sh+ | TWA: 2 mg/m <sup>3</sup><br>Peak: 4 mg/m <sup>3</sup><br>skin sensitizer | - | - |

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### Derived No Effect Level (DNEL) - Workers

| Chemical name  | Oral | Dermal   | Inhalation   |
|--|------|--|--|
| O,O,O-triphenyl phosphorothioate<br>597-82-0   | -    | 0.4 mg/kg bw/day [4] [6]                               | 1.39 mg/m <sup>3</sup> [4] [6]                                 |
| N-1-Naphthylaniline<br>90-30-2   | -    | 0.05 mg/kg bw/day [4] [6]<br>6.67 mg/kg bw/day [4] [7] | 0.18 mg/m <sup>3</sup> [4] [6]<br>44 mg/m <sup>3</sup> [4] [7] |
| Benzenamine, N-phenyl-, reaction<br>products with 2,4,4-trimethylpentene<br>68411-46-1 | -    | 0.08 mg/kg bw/day [4] [6]                              | 0.6 mg/m <sup>3</sup> [4] [6]                                  |

#### Derived No Effect Level (DNEL) - General Public

| Chemical name  | Oral  | Dermal   | Inhalation  |
|--|---|--|---|
| O,O,O-triphenyl phosphorothioate<br>597-82-0   | 0.2 mg/kg bw/day [4] [6]                            | -  | 0.34 mg/m <sup>3</sup> [4] [6]                                  |
| N-1-Naphthylaniline<br>90-30-2   | 0.03 mg/kg bw/day [4] [6]<br>8 mg/kg bw/day [4] [7] | 3.33 mg/kg bw/day [4] [6]<br>3.33 mg/kg bw/day [4] [7] | 0.044 mg/m <sup>3</sup> [4] [6]<br>33 mg/m <sup>3</sup> [4] [7] |
| Benzenamine, N-phenyl-, reaction<br>products with 2,4,4-trimethylpentene<br>68411-46-1 | 0.04 mg/kg bw/day [4] [6]                           | -  | 0.14 mg/m <sup>3</sup> [4] [6]                                  |

#### Predicted No Effect Concentration (PNEC)

| Chemical name   | Freshwater  | Freshwater<br>(intermittent release) | Marine water | Marine water<br>(intermittent release) | Air |
|---|-------------|--------------------------------------|--------------|--|-----|
| Benzenamine, N-phenyl-,<br>reaction products with<br>2,4,4-trimethylpentene<br>68411-46-1 | 0.0338 mg/L | 0.51 mg/L                            | 0.00338 mg/L | -                                      | -   |

| Chemical name   | Freshwater<br>sediment     | Marine sediment             | Sewage treatment | Soil               | Food chain |
|---|----------------------------|-----------------------------|------------------|--------------------|------------|
| O,O,O-triphenyl<br>phosphorothioate<br>597-82-0   | -                          | -                           | 10 mg/L          | 2.37 mg/kg soil dw | -          |
| Benzenamine, N-phenyl-,<br>reaction products with<br>2,4,4-trimethylpentene<br>68411-46-1 | 0.446 mg/kg<br>sediment dw | 0.0446 mg/kg<br>sediment dw | 10 mg/L          | 1.76 mg/kg soil dw | -          |

**8.2. Exposure controls**

|  |  |
|--|--|
| <b>Engineering controls</b>            | Ensure that eyewash stations and safety showers are close to the workstation location  |
| <b>Personal Protective Equipment</b>   |  |
| <b>Eye/face protection</b>             | Wear safety glasses with side shields (or goggles)   |
| <b>Hand protection</b>                 | Nitrile gloves. Coating thickness 0.4 mm. Level 6 > 480 min breakthrough time.<br>Polyvinylchloride. Coating thickness 0.7 mm. Level 6, > 480 min breakthrough time. |
| <b>Skin and body protection</b>        | Wear suitable protective clothing  |
| <b>Respiratory protection</b>          | When processing in open systems with aerosol formation wear suitable respiratory protection to avoid inhalation of aerosol particles.                                |
| <b>Recommended filter type:</b>        | EN 149, FFP2; EN 143, P2.  |
| <b>General hygiene considerations</b>  | Handle in accordance with good industrial hygiene and safety practice.   |
| <b>Environmental exposure controls</b> | No information available.  |

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid                   |
| <b>Appearance</b>     | clear                    |
| <b>Color</b>          | amber                    |
| <b>Odor</b>           | characteristic           |
| <b>Odor threshold</b> | No information available |

| <b>Property</b>                      | <b>Values</b>                  | <b>Remarks • Method</b>  |
|--------------------------------------|--------------------------------|--------------------------|
| <b>Melting / freezing point</b>      | No data available              | None known               |
| <b>Boiling point / boiling range</b> | No data available              | None known               |
| <b>Flammability (solid, gas)</b>     | No data available              | None known               |
| <b>Flammability Limit in Air</b>     |                                | None known               |
| Upper flammability limit             | No data available              |                          |
| Lower flammability limit             | No data available              |                          |
| <b>Flash point</b>                   | > = 275 °C                     | ASTM D 92-97             |
| <b>Autoignition temperature</b>      | > 370 °C                       | DIN 51794                |
| <b>Decomposition temperature</b>     | No information available       | None known               |
| <b>pH</b>                            | 6.0 - 6.5                      | No information available |
| pH (as aqueous solution)             | No data available              | None known               |
| <b>Kinematic viscosity</b>           | 227 mm <sup>2</sup> /s @ 40 °C | ASTM D 445-97            |
| Dynamic viscosity                    | No data available              | None known               |
| <b>Water solubility</b>              | Partially soluble              | None known               |
| <b>Solubility in other solvents</b>  | No data available              | None known               |
| <b>Partition coefficient:</b>        | No data available              | None known               |
| n-octanol/water                      |                                |                          |
| <b>Vapor pressure</b>                | No data available              | None known               |
| <b>Relative density</b>              | 1.053                          | None known               |
| Bulk density                         | No data available              |                          |
| Density VALUE min                    | No data available              |                          |
| <b>Vapor density</b>                 | No data available              | None known               |
| <b>Particle characteristics</b>      |                                |                          |
| Particle Size                        | No information available       |                          |
| Particle Size Distribution           | No information available       |                          |

**9.2. Other information**

|                    |      |
|--------------------|------|
| <b>VOC content</b> | None |
|--------------------|------|

**9.2.1. Information with regard to physical hazard classes**

Not applicable

**Explosive properties**

Not an explosive

**Oxidizing properties**

The substance or mixture is not classified as oxidizing

**9.2.2. Other safety characteristics**

No information available

**Evaporation rate**

No information available

**SECTION 10: Stability and reactivity****10.1. Reactivity****Reactivity**

Not applicable.

**10.2. Chemical stability****Stability**

Stable under normal conditions.

**Explosion data****Sensitivity to mechanical impact** None.**Sensitivity to static discharge** None.**10.3. Possibility of hazardous reactions****Possibility of hazardous reactions** Reaction with strong acids. Reaction with oxidants.**10.4. Conditions to avoid****Conditions to avoid**

No special precautions are needed in handling this material.

**10.5. Incompatible materials****Incompatible materials**

Oxidizing agents. Reducing agents.

**10.6. Hazardous decomposition products****Hazardous decomposition products** None known.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information****Inhalation**

None known.

**Eye contact**

Not expected to cause eye irritation.

**Skin contact**

Health injuries are not known or expected under normal use.

**Ingestion**

Low toxicity by this route.

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

No information available.

**Acute toxicity**

**Numerical measures of toxicity**

No information available

**The following values are calculated based on chapter 3.1 of the GHS document**

ATEmix (oral) 5,751.80 mg/kg  
ATEmix (dermal) 16,478.00 mg/kg

**Unknown acute toxicity**

0.4175 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.  
82.4175 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.  
97.4175 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).  
97.4175 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).  
97.4175 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

| Chemical name   | Oral LD50            | Dermal LD50           | Inhalation LC50 |
|---|----------------------|-----------------------|-----------------|
| N-1-Naphthylaniline   | = 1625 mg/kg ( Rat ) | > 8000 mg/kg (Rabbit) | --              |
| O,O,O-triphenyl phosphorothioate                                      | -                    | > 2000 mg/kg ( Rat )  | -               |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rat )  | -               |

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

**Skin corrosion/irritation** Not irritating.

**Serious eye damage/eye irritation** Not irritating.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** Not likely to be carcinogenic to humans.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**11.2. Information on other hazards****11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

**11.2.2. Other information**

**Other adverse effects** No information available.

**SECTION 12: Ecological information**



**12.1. Toxicity****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

**Unknown aquatic toxicity**

Contains 0.4175 % of components with unknown hazards to the aquatic environment.

| Method  | Species              | Endpoint type  | Effective dose             | Exposure time            | Results                  |
|---|----------------------|--|----------------------------|--------------------------|--------------------------|
| No information available  | Fish                 | LC50   | 100 mg/L                   | No information available | No information available |
|   |                      |  |                            |                          |                          |
| Chemical name   | Algae/aquatic plants | Fish   | Toxicity to microorganisms | Crustacea                |                          |
| N-1-Naphthylaniline   | --                   | LC50 (96 h, semi-static)<br>0.44 mg/L<br>(Oncorhynchus mykiss) | -                          | --                       |                          |
| O,O,O-triphenyl phosphorothioate                                      | -                    | LC50: >100mg/L (96h, Danio rerio)                              | -                          | -                        |                          |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | -                    | LC50: >100mg/L (96h, Danio rerio)                              | -                          | -                        |                          |

**Acute aquatic toxicity****Fish**

No information available

**Crustacea**

No information available

**Bacteria toxicity**

No information available

**Algae/aquatic plants**

No information available

**Chronic aquatic toxicity****Fish**

No information available

**Crustacea**

No information available

**Bacteria toxicity**

No information available

**12.2. Persistence and degradability****Persistence and degradability**

Not readily biodegradable

**12.3. Bioaccumulative potential****Bioaccumulation**

Not expected to bioaccumulate.

| Chemical name                    | Partition coefficient |
|----------------------------------|-----------------------|
| N-1-Naphthylaniline              | 4.28                  |
| O,O,O-triphenyl phosphorothioate | 5                     |

**12.4. Mobility in soil****Mobility**

The substance will not evaporate into the atmosphere from the water surface.

**12.5. Results of PBT and vPvB assessment****PBT and vPvB assessment**

This mixture contains substances considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains substances considered to be very persistent and very bioaccumulating (vPvB).

| Chemical name   | PBT and vPvB assessment         |
|---|---------------------------------|
| N-1-Naphthylaniline   | The substance is not PBT / vPvB |
| O,O,O-triphenyl phosphorothioate                                      | PBT & vPvB                      |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | The substance is not PBT / vPvB |

**12.6. Endocrine disrupting properties****Endocrine disrupting properties**

This product does not contain any known or suspected endocrine disruptors.

**12.7. Other adverse effects**

Other adverse effects No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers. Since empty containers retain product residue, follow label warnings even after container is emptied.

**SECTION 14: Transport information****IATA**

**14.1 UN number or ID number** UN3082

**14.2. Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains O,O,O-triphenyl phosphorothioate)

**14.3 Transport hazard class(es)** 9

**14.4 Packing group** III

**14.5 Environmental hazard** Environmentally hazardous substances

**14.6 Special precautions for user**

**Special Provisions** F-A;S-F

**ERG Number** 171

**IMDG**

**14.1 UN number or ID number** UN3082

**14.2. Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains O,O,O-triphenyl phosphorothioate)

**14.3 Transport hazard class(es)** 9

**14.4 Packing group** III

**14.5 Environmental hazard** Environmentally hazardous substances

**14.6 Special precautions for user**

**Special Provisions** None

**14.7 Maritime transport in bulk according to IMO instruments** Not applicable

**Land transport (ADR/RID)**

**14.1 UN number or ID number** UN3082

**14.2. UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(contains O,O,O-triphenyl phosphorothioate)

**14.3 Transport hazard class(es)** 9

**14.4 Packing group** III

**14.5 Environmental hazard** Environmentally hazardous substances

**14.6 Special precautions for user**

**Special Provisions** None

**Classification code** M6

**ADR:**

**14.1 UN number or ID number** 3082

**14.2. UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(contains O,O,O-triphenyl phosphorothioate)

**14.3 Transport hazard class(es)** 9

**14.4 Packing group** III

**14.5 Environmental hazard** Environmentally hazardous substances

**14.6 Special precautions for user**

**Special Provisions** None

|                         |     |
|-------------------------|-----|
| Classification code     | M6  |
| Tunnel restriction code | (E) |

## SECTION 15: Regulatory information

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

**Water hazard class (WGK)** obviously hazardous to water (WGK 2)

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:** This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants** Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable

#### International Inventories

|                                |   |
|--------------------------------|---|
| <b>United States (TSCA)</b>    | All ingredients are on the inventory or exempt from listing |
| <b>Canada (DSL)</b>            | All ingredients are on the inventory or exempt from listing |
| <b>Canada (NDSL)</b>           | None of the ingredients are on the inventory.               |
| <b>European Union (EINECS)</b> | All ingredients are on the inventory or exempt from listing |
| <b>European Union (ELINCS)</b> | None of the ingredients are on the inventory.               |
| <b>Japan (ENCS)</b>            | All ingredients are on the inventory or exempt from listing |
| <b>China (IECSC)</b>           | All ingredients are on the inventory or exempt from listing |
| <b>KECL</b>                    | All ingredients are on the inventory or exempt from listing |
| <b>Philippines (PICCS)</b>     | All ingredients are on the inventory or exempt from listing |
| <b>Australia (AICS)</b>        | All ingredients are on the inventory or exempt from listing |
| <b>NZIoC</b>                   | All ingredients are on the inventory or exempt from listing |

**TSCA Legend TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**Canadian Inventory Legend DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EU Inventory Legend EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**Japanese Inventory Legend ENCS** - Japan Existing and New Chemical Substances

**China Inventory Legend IECSC** - China Inventory of Existing Chemical Substances

**Korean Inventory Legend KECL** - Korean Existing and Evaluated Chemical Substances

**Philippines Inventory Legend PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**Australian Inventory Legend AIC** - Australian Inventory of Industrial Chemicals

**New Zealand Inventory Legend NZIoC** - New Zealand Inventory of Chemicals

### 15.2. Chemical safety assessment

**Chemical Safety Report** A Chemical Safety Assessment is not required.

## SECTION 16: Other information

**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H360FD - May damage fertility. May damage the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorization:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

**Legend**

Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

\*

Skin designation

+ Sensitizers

| Classification procedure  |                    |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity   | Calculation method |
| Acute dermal toxicity   | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - vapor                               | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitization                                       | Calculation method |
| Skin sensitization  | Calculation method |
| Mutagenicity  | Calculation method |
| Carcinogenicity   | Calculation method |
| Reproductive toxicity   | Calculation method |
| STOT - single exposure  | Calculation method |
| STOT - repeated exposure  | Calculation method |
| Acute aquatic toxicity  | Calculation method |
| Chronic aquatic toxicity  | Calculation method |
| Aspiration hazard   | Calculation method |
| Ozone   | Calculation method |
| Health hazards not otherwise classified (HHNOC)                 | Calculation method |

**Key literature references and  
sources for data used to compile the  
SDS**

ATSDR Agency for Toxic Substances and Disease Registry (ATSDR)

CHEMVIEW not translate code U.S. Environmental Protection Agency ChemView Database

EFSA not translate code European Food Safety Authority (EFSA)

ECHA RAC European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

ECHA API European Chemicals Agency (ECHA) (ECHA\_API)

EPA not translate code EPA (Environmental Protection Agency)

EPA\_AEGL not translate code Acute Exposure Guideline Level(s) (AEGL(s))

EPA\_FIFRA not translate code U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

EPA\_HPV not translate code U.S. Environmental Protection Agency High Production Volume Chemicals

FOOD\_JOURN not translate code Food Research Journal

HSDB not translate code Hazardous Substance Database

IUCLID not translate code International Uniform Chemical Information Database (IUCLID)

JAPAN\_GHS not translate code National Institute of Technology and Evaluation (NITE)

NICNAS not translate code Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

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NIOSH not translate code NIOSH (National Institute for Occupational Safety and Health)  
NLM\_CIP not translate code National Library of Medicine's ChemID Plus (NLM CIP)  
NLM\_PUBMED not translate code National Library of Medicine's PubMed database (NLM PUBMED)  
NTP not translate code National Toxicology Program (NTP)  
NZ\_CCID not translate code New Zealand's Chemical Classification and Information Database (CCID)  
OECD\_EHSP not translate code Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
OECD\_HPVP not translate code Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
OECD\_SIDS not translate code Organization for Economic Co-operation and Development Screening Information Data Set  
WHO not translate code World Health Organization

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**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**

**Additional information**

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**End of Safety Data Sheet**