

This safety data sheet was created pursuant to the requirements of:  
UK REACH Regulations (SI 2019/758 as amended)

Revision date 24-Oct-2023

Revision Number 1

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

### 1.1. Product identifier

**Product Code(s)** 123546  
**Safety data sheet number** 123546  
**Product Name** SELENIA WR FORWARD 5W 30  
**Pure substance/mixture** Mixture

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

**Recommended use** Engine oil

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

#### **Supplier**

Univar Solutions UK Ltd  
Aquarius House  
6 Mid Point Business Park  
Bradford  
GBR

For further information, please contact

**E-mail address** SDS.EMEA@univarsolutions.com  
**Non-Emergency Telephone Number** +44 1274 267300 / +44 1274 267306

### 1.4. Emergency telephone number

**Emergency Telephone** SGS - +32 (0)3 575 55 55 (24h)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Not classified

### 2.2. Label elements

Not classified

#### **Hazard statements**

Not classified  
EUH208 - May produce an allergic reaction.

EUH210 - Safety data sheet available on request

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 41 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 41 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).
- 41 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

#### Unknown aquatic toxicity

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name                                                                                     | Weight-% | EC No (EU Index No)      | UK REACH registration number | Classification according to GB CLP (SI 2020/1567 as amended)                                                        | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---------------------------------------------------------------------------------------------------|----------|--------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------|----------|----------------------|
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC 64742-54-7                                 | 50 - 60% | 265-157-1 (649-467-00-8) | -                            | Asp. Tox. 1 (H304)                                                                                                  | -                                  | -        | -                    |
| A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXY PHENYL)PROPIONATE 125643-61-0 | 0 - 10%  | 406-040-9                | -                            | Aquatic Chronic 4 (H413)                                                                                            | -                                  | -        | -                    |
| PHENOL DODECYL, BRANCHED 121158-58-5                                                              | 0 - 10%  | 310-154-3                | -                            | Skin Corr. 1C (H314)<br>Eye Dam. 1 (H318)<br>Repr. 1B (H360F)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | -                                  | 10       | 10                   |

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

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (UK REACH Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|              |                                                                                                                   |
|--------------|-------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Move victim to fresh air. Get medical attention immediately if symptoms occur.                                    |
| Eye contact  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor. |
| Skin contact | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.                 |
| Ingestion    | Rinse mouth.                                                                                                      |

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

|        |                                   |
|--------|-----------------------------------|
| Dermal | May cause allergic skin reaction. |
|--------|-----------------------------------|

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

|                 |                        |
|-----------------|------------------------|
| Note to doctors | Treat symptomatically. |
|-----------------|------------------------|

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

|                              |                                                                                                         |
|------------------------------|---------------------------------------------------------------------------------------------------------|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|------------------------------|---------------------------------------------------------------------------------------------------------|

|            |                                                                    |
|------------|--------------------------------------------------------------------|
| Large Fire | CAUTION: Use of water spray when fighting fire may be inefficient. |
|------------|--------------------------------------------------------------------|

|                                |                                                                   |
|--------------------------------|-------------------------------------------------------------------|
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams. |
|--------------------------------|-------------------------------------------------------------------|

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

|                               |                                                                             |
|-------------------------------|-----------------------------------------------------------------------------|
| Hazardous combustion products | Carbon oxides. Oxides of sulphur. Phosphorus oxides. Nitrogen oxides (NOx). |
|-------------------------------|-----------------------------------------------------------------------------|

#### **5.3. Advice for firefighters**

|                                                                |                                                                                                                                    |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

|                      |                                                                                       |
|----------------------|---------------------------------------------------------------------------------------|
| Personal precautions | Avoid contact with skin, eyes and inhalation of vapours. Ensure adequate ventilation. |
|----------------------|---------------------------------------------------------------------------------------|

|                          |                                                   |
|--------------------------|---------------------------------------------------|
| For emergency responders | Use personal protection recommended in Section 8. |
|--------------------------|---------------------------------------------------|

#### **6.2. Environmental precautions**

|                           |                                                       |
|---------------------------|-------------------------------------------------------|
| Environmental precautions | See Section 12 for additional Ecological Information. |
|---------------------------|-------------------------------------------------------|

#### **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** Collect with absorbent, non-combustible material into suitable containers. Flush area with flooding quantities of water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

**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** Avoid contact with skin, eyes and inhalation of vapours. Ensure adequate ventilation.

**General hygiene considerations** Wash hands before breaks and immediately after handling the product.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

### 7.3. Specific end use(s)

#### **Specific use(s)**

See section 1 for more information.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

**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                    |
|---------------------------------------------------------------------------------------------------------------|------|---------------------------|-------------------------------|
| DISTILLATES (PETROLEUM),<br>HYDROTREATED HEAVY<br>PARAFFINIC<br>64742-54-7                                    |      | 0.97 mg/kg bw/day [4] [6] | 5.4 mg/m <sup>3</sup> [5] [6] |
| A MIXTURE OF ISOMERS OF:<br>C7-9-ALKYL<br>3-(3,5-DI-TRANS-BUTYL-4-HYDROX<br>YPHENYL)PROPIONATE<br>125643-61-0 |      | 8.6 mg/kg/day [4] [6]     | 3.0 mg/m <sup>3</sup> [4] [6] |
| PHENOL DODECYL, BRANCHED<br>121158-58-5                                                                       |      | 0.25 mg/kg/day            | 1.7621 mg/m <sup>3</sup> [6]  |

|     |                          |
|-----|--------------------------|
| [4] | Systemic health effects. |
| [5] | Local health effects.    |
| [6] | Long term.               |

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

| Chemical name                                                                                                 | Oral                                                    | Dermal                                             | Inhalation                                                        |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------|
| DISTILLATES (PETROLEUM),<br>HYDROTREATED HEAVY<br>PARAFFINIC<br>64742-54-7                                    | 0.74 mg/kg bw/day [4] [6]                               |                                                    | 1.2 mg/m <sup>3</sup> [5] [6]                                     |
| A MIXTURE OF ISOMERS OF:<br>C7-9-ALKYL<br>3-(3,5-DI-TRANS-BUTYL-4-HYDROX<br>YPHENYL)PROPIONATE<br>125643-61-0 | 0.43 mg/kg/day [4] [6]                                  | 4.3 mg/kg/day [4] [6]                              | 0.74 mg/m <sup>3</sup> [4] [6]                                    |
| PHENOL DODECYL, BRANCHED<br>121158-58-5                                                                       | 0.075 mg/kg bw/day [4] [6]<br>1.26 mg/kg bw/day [4] [7] | 50 mg/kg bw/day [4] [6]<br>50 mg/kg bw/day [4] [7] | 0.79 mg/m <sup>3</sup> [4] [6]<br>13.26 mg/m <sup>3</sup> [4] [7] |

|     |                          |
|-----|--------------------------|
| [4] | Systemic health effects. |
| [5] | Local health effects.    |
| [6] | Long term.               |

**Predicted No Effect Concentration (PNEC)**

| Chemical name                              | Freshwater | Freshwater<br>(intermittent release) | Marine water | Marine water<br>(intermittent release) | Air |
|--------------------------------------------|------------|--------------------------------------|--------------|----------------------------------------|-----|
| PHENOL DODECYL,<br>BRANCHED<br>121158-58-5 | 0.074 µg/L | 0.37 µg/L                            | 0.0074 µg/L  |                                        |     |

| Chemical name                                                                                                     | Freshwater<br>sediment | Marine sediment | Sewage treatment | Soil                | Food chain      |
|-------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|------------------|---------------------|-----------------|
| DISTILLATES<br>(PETROLEUM),<br>HYDROTREATED HEAVY<br>PARAFFINIC<br>64742-54-7                                     |                        |                 |                  |                     | 9.33 mg/kg food |
| A MIXTURE OF ISOMERS<br>OF: C7-9-ALKYL<br>3-(3,5-DI-TRANS-BUTYL-<br>4-HYDROXYPHENYL)PR<br>OPIONATE<br>125643-61-0 | 0.37 mg/kg             | 0.037 mg/kg     |                  | 0.632 mg/kg         | 10.0 mg/l       |
| PHENOL DODECYL,<br>BRANCHED<br>121158-58-5                                                                        | 0.226 mg/kg            | 0.0226 mg/kg    | 100 mg/L         | 0.118 mg/kg soil dw | 4 mg/kg food    |

**8.2. Exposure controls**

|                             |                           |
|-----------------------------|---------------------------|
| <b>Engineering controls</b> | No information available. |
|-----------------------------|---------------------------|

**Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

**Hand protection** Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.

| Gloves              |                                                                           |                 |                    |
|---------------------|---------------------------------------------------------------------------|-----------------|--------------------|
| Duration of contact | PPE - Glove material                                                      | Glove thickness | Break through time |
|                     | Wear protective nitrile rubber gloves<br>Wear protective Neoprene™ gloves |                 |                    |

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

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

|                        |                           |
|------------------------|---------------------------|
| <b>Physical state</b>  | Liquid                    |
| <b>Appearance</b>      | Viscous liquid            |
| <b>Colour</b>          | amber                     |
| <b>Odour</b>           | No information available. |
| <b>Odour threshold</b> | No information available  |

| <b>Property</b>                                | <b>Values</b>            | <b>Remarks • Method</b>  |
|------------------------------------------------|--------------------------|--------------------------|
| <b>Melting point / freezing point</b>          |                          | No information available |
| <b>Initial boiling point and boiling range</b> | > 300.00 °C              |                          |
| <b>Flammability</b>                            |                          | No information available |
| <b>Flammability Limit in Air</b>               |                          | No information available |
| Upper flammability or explosive limits         |                          |                          |
| Lower flammability or explosive limits         |                          |                          |
| <b>Flash point</b>                             | 201.5 °C                 | No information available |
| <b>Autoignition temperature</b>                |                          | No information available |
| <b>Decomposition temperature</b>               |                          | No information available |
| <b>pH</b>                                      |                          | No information available |
| pH (as aqueous solution)                       |                          | No information available |
| <b>Kinematic viscosity</b>                     | 67.98                    | 40 °C                    |
| Dynamic viscosity                              |                          | No information available |
| <b>Water solubility</b>                        | Immiscible in water      | No information available |
| <b>Solubility(ies)</b>                         |                          | No information available |
| <b>Partition coefficient</b>                   |                          | No information available |
| <b>Vapour pressure</b>                         |                          | No information available |
| <b>Relative density</b>                        | 0.85                     | No information available |
| Bulk density                                   |                          |                          |
| Liquid Density                                 |                          |                          |
| <b>Relative vapour density</b>                 |                          | No information available |
| <b>Particle characteristics</b>                |                          | No information available |
| Particle Size                                  |                          |                          |
| Particle Size Distribution                     |                          |                          |
| <b>Explosive properties</b>                    | No information available |                          |

Oxidising properties No information available

## 9.2. Other information

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Reactivity Stable under recommended storage conditions.

### 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 Stable under normal conditions.

### 10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

### 10.5. Incompatible materials

Incompatible materials None known based on information supplied.

### 10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx). Phosphorus oxides. Hydrogen sulphide.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

##### Product Information

Inhalation May cause irritation.

Eye contact May cause temporary eye irritation.

Skin contact Allergic reactions (sensitiser).

Ingestion Gastrointestinal discomfort.

#### 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)                 | 36,585.40 | mg/kg |
| ATEmix (dermal)               | 12,195.10 | mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 | ppm   |
| ATEmix (inhalation-vapour)    | 99,999.00 | mg/l  |
| ATEmix (inhalation-dust/mist) | 99,999.00 | mg/l  |

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

41 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

41 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).

41 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

#### Component Information

| Chemical name                                                                                  | Oral LD50         | Dermal LD50              | Inhalation LC50 |
|------------------------------------------------------------------------------------------------|-------------------|--------------------------|-----------------|
| DISTILLATES (PETROLEUM),<br>HYDROTREATED HEAVY<br>PARAFFINIC                                   | > 15 g/kg ( Rat ) | > 5000 mg/kg ( Rabbit )  | -               |
| A MIXTURE OF ISOMERS OF:<br>C7-9-ALKYL<br>3-(3,5-DI-TRANS-BUTYL-4-HY<br>DROXYPHENYL)PROPIONATE | -                 | > 2000 mg/kg ( Rat )     | -               |
| PHENOL DODECYL,<br>BRANCHED                                                                    | -                 | = 15000 mg/kg ( Rabbit ) | -               |

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

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

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

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

**Reproductive toxicity** No information available.

| Chemical name            | United Kingdom |
|--------------------------|----------------|
| PHENOL DODECYL, BRANCHED | Repr. 1B       |

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

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

**Aspiration hazard** No information available.



**Other adverse effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Not considered to be harmful to aquatic life.

#### Unknown aquatic toxicity

| Chemical name                                                                        | Algae/aquatic plants | Fish                                       | Toxicity to microorganisms | Crustacea                            |
|--------------------------------------------------------------------------------------|----------------------|--------------------------------------------|----------------------------|--------------------------------------|
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC                               | -                    | LC50: >5000mg/L (96h, Oncorhynchus mykiss) | -                          | EC50: >1000mg/L (48h, Daphnia magna) |
| A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE | -                    | LC50: >1000mg/L (96h, Danio rerio)         | -                          | -                                    |
| PHENOL DODECYL, BRANCHED                                                             | -                    | LC50: =0.14mg/L (96h, Oncorhynchus clarki) | -                          | -                                    |

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

| Chemical name                                                                        | Partition coefficient |
|--------------------------------------------------------------------------------------|-----------------------|
| A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE | 9.2                   |
| PHENOL DODECYL, BRANCHED                                                             | 7.14                  |

### 12.4. Mobility in soil

**Mobility in soil** Insoluble.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

| Chemical name                                                                        | PBT and vPvB assessment         |
|--------------------------------------------------------------------------------------|---------------------------------|
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC                               | The substance is not PBT / vPvB |
| A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE | The substance is not PBT / vPvB |
| PHENOL DODECYL, BRANCHED                                                             | The substance is not PBT / vPvB |

### 12.6. 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.                                                                                  |

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

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2                              |                |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

**IMDG**

|                                                              |                          |
|--------------------------------------------------------------|--------------------------|
| 14.1 UN number or ID number                                  | Not regulated            |
| 14.3 Transport hazard class(es)                              | Not regulated            |
| 14.4 Packing group                                           | Not regulated            |
| 14.5 Environmental hazards                                   | Not applicable           |
| 14.6 Special precautions for user                            |                          |
| Special Provisions                                           | None                     |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available |

**RID**

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

**ADR**

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Authorisations and/or restrictions on use:**

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|---------------|-------------------------------------------|--------------------------------------------------------|
|               |                                           |                                                        |

|                                                                        |                                                                  |   |
|------------------------------------------------------------------------|------------------------------------------------------------------|---|
| DISTILLATES (PETROLEUM), HYDROTREATED<br>HEAVY PARAFFINIC - 64742-54-7 | Use restricted. See item 28.<br>Restricted Carcinogen 1B         | - |
| PHENOL DODECYL, BRANCHED - 121158-58-5                                 | Use restricted. See item 30.<br>Restricted Reproductive Toxin 1B | - |

**Persistent Organic Pollutants**

Not applicable

**Export Notification requirements**

Not applicable

**Named dangerous substances per COMAH Regulations 2015 (as amended)**

Not applicable

**The Ozone-Depleting Substances Regulations 2015**

Not applicable

**The Biocidal Products Regulations 2001 (as amended)**

Not applicable

**The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)**

Not applicable

**Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)**

Not applicable

**International Inventories****TSCA**

Contact supplier for inventory compliance status

**DSL/NDSL**

Contact supplier for inventory compliance status

**EINECS/ELINCS**

Contact supplier for inventory compliance status

**ENCS**

Contact supplier for inventory compliance status

**IECSC**

Contact supplier for inventory compliance status

**KECL**

Contact supplier for inventory compliance status

**PICCS**

Contact supplier for inventory compliance status

**AIIC**

Contact supplier for inventory compliance status

**NZIoC**

Contact supplier for inventory compliance status

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AIIC** - Australian Inventory of Industrial Chemicals**NZIoC** - New Zealand Inventory of Chemicals**15.2. Chemical safety assessment****Chemical Safety Report**

No information available

**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

H304 - May be fatal if swallowed and enters airways

### Legend

SVHC: Substances of Very High Concern for Authorisation:

### Legend Section 8: Exposure controls/personal protection

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |
| +       | Sensitisers                 |      |                                  |

Revision Note \*\*\*Indicates updated data since last publication

### 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 - vapour                              | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitisation                                       | Calculation method |
| Skin sensitisation                                              | 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 |

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

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
 European Chemicals Agency (ECHA) (ECHA\_API)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 National Institute of Technology and Evaluation (NITE)  
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
 Organisation for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

**Prepared By** Jitendra Panchal

**Revision date** 24-Oct-2023

**This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)**

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

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**