

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

Revision date 16-Oct-2024

Revision Number 1

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

### 1.1. Product identifier

|                          |                                 |
|--------------------------|---------------------------------|
| Product Code(s)          | 124838                          |
| Safety data sheet number | 124838                          |
| Product Name             | DOWANOL TPM GLYCOL ETHER        |
| EC Number                | 247-045-4                       |
| CAS No                   | 25498-49-1                      |
| Chemical name            | Tripropyleneglycol methyl ether |
| Pure substance/mixture   | Substance                       |
| Molecular weight         | 206.3 g/mol                     |

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

|                 |                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recommended use | Manufacture of substance<br>Intermediate<br>Formulation & (re)packing of substances and mixtures.<br>Coatings<br>Lubricant<br>Laboratory reagent<br>Mining chemicals<br>Use in oil and gas field drilling and production operations<br>Cleaning agent<br>Metal working fluids / rolling oils,<br>Additive for Agrochemicals<br>Industrial use<br>Professional use<br>Consumer use |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 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

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

The product contains no substances which at their given concentration, are considered to be hazardous to health

| 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) |
|----------------------------------------------|----------|---------------------|------------------------------|--------------------------------------------------------------|------------------------------------|----------|----------------------|
| TRIPROPYLENGLYCOL METHYL ETHER<br>25498-49-1 | > 97.5 % | 247-045-4           | -                            | -                                                            | -                                  | -        | -                    |

#### 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

##### **General advice**

Use personal protection recommended in Section 8.

##### **Inhalation**

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.

|              |                                                                                                                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur. |
| Skin contact | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur.                                                   |
| Ingestion    | Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.                                                                            |

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

|      |                                     |
|------|-------------------------------------|
| Eyes | May cause temporary eye irritation. |
|------|-------------------------------------|

#### **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   | Dry chemical, CO2, alcohol-resistant foam or water spray.          |
| 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**

|                                            |                                                                                                                                                                             |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specific hazards arising from the chemical | When heated and in case of fire, toxic vapours/gases may be formed. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.. |
| Hazardous combustion products              | Carbon oxides. Aldehydes. Ketone. Organic Acids.                                                                                                                            |

#### **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     | Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Keep unnecessary and unprotected personnel from entering. Keep people away from and upwind of spill/leak. |
| 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**

|                                        |                                                                                                                                                                |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.                                                                                                          |
| <b>Methods for cleaning up</b>         | Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Pick up and transfer to properly labelled containers. |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations.                                                                           |

#### **6.4. Reference to other sections**

|                                    |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| <b>Reference to other sections</b> | See section 8 for more information. See section 13 for more information. |
|------------------------------------|--------------------------------------------------------------------------|

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

|                                       |                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Advice on safe handling</b>        | Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Keep container closed when not in use. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion. |
| <b>General hygiene considerations</b> | Wash hands before breaks and immediately after handling the product.                                                                                                                                                                                                                                                                            |

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

|                            |                                                                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Conditions</b>  | Keep container tightly closed in a dry and well-ventilated place.                                                                                                                                   |
| <b>Packaging materials</b> | Suitable container/equipment material: Carbon Steel. stainless steel. Phenolic lined steel drums.<br>Unsuitable container/equipment material. Aluminium. copper. Galvanized iron. Galvanized steel. |

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

**Specific use(s)**  
See section 1 for more information.

|                                      |                                                                  |
|--------------------------------------|------------------------------------------------------------------|
| <b>Risk Management Methods (RMM)</b> | The information required is contained in this Safety Data Sheet. |
|--------------------------------------|------------------------------------------------------------------|

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

### **8.1. Control parameters**

|                                                |                                                                                                                                                             |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exposure Limits</b>                         | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
| <b>Biological occupational exposure limits</b> | 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                    |
|-----------------------------------|------|-------------------------|-------------------------------|
| TRIPROPYLENGLYCOL METHYL<br>ETHER |      | 96 mg/kg bw/day [4] [6] | 187 mg/m <sup>3</sup> [4] [6] |

| Chemical name | Oral | Dermal | Inhalation |
|---------------|------|--------|------------|
| 25498-49-1    |      |        |            |

[4] Systemic health effects.  
[6] Long term.

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

| Chemical name                                | Oral                     | Dermal | Inhalation                   |
|----------------------------------------------|--------------------------|--------|------------------------------|
| TRIPROPYLENGLYCOL METHYL ETHER<br>25498-49-1 | 8.2 mg/kg bw/day [4] [6] |        | 19 mg/m <sup>3</sup> [4] [6] |

[4] Systemic 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 |
|----------------------------------------------|------------|--------------------------------------|--------------|----------------------------------------|-----|
| TRIPROPYLENGLYCOL METHYL ETHER<br>25498-49-1 | 116.2 mg/L | 1161.9 mg/L                          | 11.62 mg/L   |                                        |     |

| Chemical name                                | Freshwater<br>sediment     | Marine sediment           | Sewage treatment | Soil                | Food chain |
|----------------------------------------------|----------------------------|---------------------------|------------------|---------------------|------------|
| TRIPROPYLENGLYCOL METHYL ETHER<br>25498-49-1 | 433.4 mg/kg<br>sediment dw | 43.3 mg/kg<br>sediment dw | 200 mg/L         | 18.52 mg/kg soil dw |            |

**8.2. Exposure controls**

**Engineering controls** 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** Wear suitable gloves. Gloves must conform to standard EN 374.

| Gloves              |                                                |                 |                    |
|---------------------|------------------------------------------------|-----------------|--------------------|
| Duration of contact | PPE - Glove material                           | Glove thickness | Break through time |
|                     | Wear protective butyl rubber gloves            | > 0.35 mm       | > 240 minutes      |
|                     | Ethyl vinyl alcohol laminate ("EVAL")          | > 0.35 mm       | > 240 minutes      |
|                     | Wear protective Neoprene™ gloves               | > 0.35 mm       | > 240 minutes      |
|                     | Nitrile/butadiene rubber ("nitrile" or "NBR"). | > 0.35 mm       | > 240 minutes      |

**Skin and body protection** Wear appropriate clothing to prevent reasonably probable skin contact.

**Respiratory protection** Use appropriate respiratory protection.  
Organic gases and vapours filter conforming to EN 14387. Type A.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |                          |
|-----------------|--------------------------|
| Physical state  | Liquid                   |
| Appearance      | Liquid                   |
| Colour          | Colourless               |
| Odour           | Ether.                   |
| Odour threshold | No information available |

| Property                                | Values                                                     | Remarks • Method                              |
|-----------------------------------------|------------------------------------------------------------|-----------------------------------------------|
| Melting point / freezing point          | -77.8 °C                                                   | Read-across.                                  |
| Initial boiling point and boiling range | 242.8 °C                                                   | @ 760 mmHg. OECD 103.                         |
| Flammability                            |                                                            | No information available.                     |
| Flammability Limit in Air               |                                                            | Read-across.                                  |
| Upper flammability or explosive limits  | 8.5 % vol                                                  |                                               |
| Lower flammability or explosive limits  | 0.8 % vol                                                  |                                               |
| Flash point                             | 124 °C                                                     | Pensky-Martens Closed Cup (PMCC). (ASTM D93). |
| Autoignition temperature                | 277 °C                                                     | @ 1013 hPa. EC Method A15.                    |
| Decomposition temperature               |                                                            | No information available.                     |
| pH                                      |                                                            | No information available.                     |
| pH (as aqueous solution)                |                                                            | No information available.                     |
| Kinematic viscosity                     | 6.71 mm <sup>2</sup> /s                                    | @ 20 °C. DIN 51562.                           |
| Dynamic viscosity                       | 5.5 mPa s                                                  | @ 25 °C.                                      |
| Water solubility                        | Miscible in water<br>> 1000 g/l @ 20 °C                    | Read-across.                                  |
| Solubility(ies)                         |                                                            | No information available.                     |
| Partition coefficient                   | log Pow: 0.31                                              | Estimated.                                    |
| Vapour pressure                         | 1.7 Pa                                                     | @ 293.15 K. Read-across.                      |
| Relative density                        | 0.9650                                                     | @ 20 °C. Read-across.                         |
| Bulk density                            |                                                            | No information available                      |
| Liquid Density                          | 0.9650 g/cm <sup>3</sup>                                   | @ @ 20 °C                                     |
| Relative vapour density                 | 7.15                                                       | Read-across.                                  |
| Particle characteristics                |                                                            | Not applicable. liquid.                       |
| Particle Size                           | No information available                                   |                                               |
| Particle Size Distribution              | No information available                                   |                                               |
| Explosive properties                    | Not considered to be explosive.                            |                                               |
| Oxidising properties                    | Does not meet the criteria for classification as oxidising |                                               |

### 9.2. Other information

|                  |             |
|------------------|-------------|
| Molecular weight | 206.3 g/mol |
|------------------|-------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|            |                           |
|------------|---------------------------|
| Reactivity | No information available. |
|------------|---------------------------|

### 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** None under normal processing.

**Hazardous polymerisation** Hazardous polymerisation does not occur.

**10.4. Conditions to avoid**

**Conditions to avoid** Do not distill to dryness. Product can oxidise at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

**10.5. Incompatible materials**

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** Carbon oxides. Aldehydes. Ketone. Organic Acids.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Inhalation of vapours in high concentration may cause irritation of respiratory system.

**Eye contact** May cause slight eye irritation. Corneal injury is unlikely.

**Skin contact** Non-irritating during normal use.

**Ingestion** May cause discomfort if swallowed.

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

**Symptoms** No information available.

**Acute toxicity**

**Numerical measures of toxicity**

No information available

| Chemical name                     | Oral LD50            | Dermal LD50              | Inhalation LC50 |
|-----------------------------------|----------------------|--------------------------|-----------------|
| TRIPROPYLENGLYCOL<br>METHYL ETHER | = 3500 mg/kg ( Rat ) | = 15440 mg/kg ( Rabbit ) | -               |

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

**Skin corrosion/irritation** Non-irritating during normal use.

## TRIPROPYLENGLYCOL METHYL ETHER (25498-49-1)

| Method | Species | Exposure route | Effective dose | Exposure time | Results                          |
|--------|---------|----------------|----------------|---------------|----------------------------------|
|        |         |                |                |               | Non-irritating during normal use |

**Serious eye damage/eye irritation** May cause slight eye irritation. Corneal injury is unlikely.

## TRIPROPYLENGLYCOL METHYL ETHER (25498-49-1)

| Method | Species | Exposure route | Effective dose | Exposure time | Results                                                    |
|--------|---------|----------------|----------------|---------------|------------------------------------------------------------|
|        |         |                |                |               | May cause slight eye irritation Corneal injury is unlikely |

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

| Method | Species | Exposure route | Results               |
|--------|---------|----------------|-----------------------|
|        | Mouse   | Dermal         | Not a skin sensitiser |

## TRIPROPYLENGLYCOL METHYL ETHER (25498-49-1)

| Method | Species | Exposure route | Results               |
|--------|---------|----------------|-----------------------|
|        | Mouse   | Dermal         | Not a skin sensitiser |

**Germ cell mutagenicity** No information available.

| Product Information |          |          |
|---------------------|----------|----------|
| Method              | Species  | Results  |
|                     | in vitro | Negative |

## Component Information

## TRIPROPYLENGLYCOL METHYL ETHER (25498-49-1)

| Method | Species  | Results  |
|--------|----------|----------|
|        | in vitro | Negative |

**Carcinogenicity** Did not cause cancer in laboratory animals.

## Component Information

## TRIPROPYLENGLYCOL METHYL ETHER (25498-49-1)

| Method | Species | Results                                     |
|--------|---------|---------------------------------------------|
|        |         | Did not cause cancer in laboratory animals. |

**Reproductive toxicity** In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

## TRIPROPYLENGLYCOL METHYL ETHER (25498-49-1)

| Method | Species | Results                                                                                                                                      |
|--------|---------|----------------------------------------------------------------------------------------------------------------------------------------------|
|        |         | In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. |

**STOT - single exposure** Evaluation of available data suggests that this material is not an STOT-SE toxicant.



## TRIPROPYLENGLYCOL METHYL ETHER (25498-49-1)

| Method | Species | Exposure route | Effective dose | Exposure time | Results                                                                             |
|--------|---------|----------------|----------------|---------------|-------------------------------------------------------------------------------------|
|        |         |                |                |               | Evaluation of available data suggests that this material is not an STOT-SE toxicant |

**STOT - repeated exposure**

Signs and symptoms of excessive exposure may include:. Narcotic effects.

## Component Information

## TRIPROPYLENGLYCOL METHYL ETHER (25498-49-1)

| Method | Species | Exposure route | Effective dose | Exposure time | Results                                                                   |
|--------|---------|----------------|----------------|---------------|---------------------------------------------------------------------------|
|        |         |                |                |               | Signs and symptoms of excessive exposure may include:<br>Narcotic effects |

**Aspiration hazard**

Based on available data the classification criteria are not met.

**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.

| Method                                                                   | Species             | Endpoint type | Effective dose | Exposure time | Results |
|--------------------------------------------------------------------------|---------------------|---------------|----------------|---------------|---------|
| OECD Test No. 203: Fish, Acute Toxicity Test or Equivalent.              | Pimephales promelas | LL50          | 11619 mg/L     | 96 hours      |         |
| OECD Test No. 202: Daphnia sp., Acute Immobilisation Test or Equivalent. | Daphnia magna       | LC50          | > 10000 mg/L   | 48 hours      |         |

## TRIPROPYLENGLYCOL METHYL ETHER (25498-49-1)

| Method                                                                   | Species             | Endpoint type | Effective dose | Exposure time | Results |
|--------------------------------------------------------------------------|---------------------|---------------|----------------|---------------|---------|
| OECD Test No. 203: Fish, Acute Toxicity Test or Equivalent.              | Pimephales promelas | LL50          | 11619 mg/L     | 96 hours      |         |
| OECD Test No. 202: Daphnia sp., Acute Immobilisation Test or Equivalent. | Daphnia magna       | LC50          | > 10000 mg/L   | 48 hours      |         |

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

Readily biodegradable.

## TRIPROPYLENGLYCOL METHYL ETHER (25498-49-1)

| Method                    | Exposure time | Value               | Results               |
|---------------------------|---------------|---------------------|-----------------------|
| OECD Test No. 301F: Ready | 28 days       | Biodegradation 60 % | Readily biodegradable |

|                                                                                |  |  |  |
|--------------------------------------------------------------------------------|--|--|--|
| Biodegradability: Manometric<br>Respirometry Test (TG 301 F) or<br>Equivalent. |  |  |  |
|--------------------------------------------------------------------------------|--|--|--|

**12.3. Bioaccumulative potential**

**Bioaccumulation** Not likely to bioaccumulate.

| Chemical name                  | Partition coefficient |
|--------------------------------|-----------------------|
| TRIPROPYLENGLYCOL METHYL ETHER | 0.31                  |

**12.4. Mobility in soil**

**Mobility in soil** Miscible in water.

**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         |
|--------------------------------|---------------------------------|
| TRIPROPYLENGLYCOL METHYL ETHER | 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** No

**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** No

**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        | No            |
| 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        | No            |
| 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 does not contain substances subject to authorisation (UK REACH - Annex XIV).

This product does not contain substances subject to restriction (UK REACH - Annex XVII).

**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/NDL       | 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 |
| KECI          | 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 Chemical Safety Assessment has been carried out for this substance/mixture

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****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)  
 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)  
U.S. 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** Lisa Bland

**Revision date** 16-Oct-2024

**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**

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**End of Safety Data Sheet**