

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

Revision date 26-Nov-2024

Revision Number 1

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

### 1.1. Product identifier

**Product Code(s)** 125023  
**Safety data sheet number** 125023  
**Product Name** COLATERIC J49  
**Synonyms** INCI NAME: DISODIUM LAUROAMPHODIACETATE  
**Pure substance/mixture** Mixture

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

**Recommended use** Cosmetics  
Personal care

### 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

|                                   |                     |
|-----------------------------------|---------------------|
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Chronic aquatic toxicity          | Category 3 - (H412) |

### 2.2. Label elements

**Signal word**

Warning

**Hazard statements**

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

**Precautionary statements**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P273 - Avoid release to the environment

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P501 - Dispose of contents/ container to an approved waste disposal plant

**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) |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|------------------------------|--------------------------------------------------------------|------------------------------------|----------|----------------------|
| ACETIC ACID, 2-CHLORO-, SODIUM SALT (1:1), REACTION PRODUCTS WITH 4,5-DIHYDRO-2-UNDECYL-1H-1-MIDAZOLE-1-ETHANOL AND SODIUM HYDROXIDE 68608-66-2 | 15 - 40% | 271-794-6           | -                            | Eye Irrit. 2 (H319)<br>Aquatic Chronic 3 (H412)              | -                                  | -        | -                    |
| ACETIC ACID, 2-CHLORO-, SODIUM SALT (1:1), REACTION PRODUCTS WITH                                                                               | 7 - 13%  | -                   | -                            | Eye Irrit. 2 (H319)<br>Aquatic Chronic 3 (H412)              | -                                  | -        | -                    |

|                                                                                                |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| 4,5-DIHYDRO-2-UN<br>DECYL-1H-<br>IMIDAZOLE-1-ETHA<br>NOL AND SODIUM<br>HYDROXIDE<br>68908-99-6 |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|

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

#### Additional information

CAS No. 68608-66-2 has an alternate CAS No. and name: 1689515-39-6: ACETIC ACID, 2-CHLORO-, REACTION PRODUCTS WITH 2-C11-13-ALKYL-4,5-DIHYDRO-1H-IMIDAZOLE-1-ETHANOL AND SODIUM HYDROXIDE. REACH Registration number 01-2119950618-29-XXXX.

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

|                                           |                                                                                                                                                                                                                                                                                     |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance.                                                                                                                                                                                                                            |
| <b>Inhalation</b>                         | Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.                                                                                                                                                                               |
| <b>Eye contact</b>                        | 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. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.                                                                                                                    |
| <b>Ingestion</b>                          | Rinse mouth thoroughly with water. Get medical attention if symptoms occur. Do NOT induce vomiting.                                                                                                                                                                                 |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).                                                                                                                                                                                       |

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

|                 |                                |
|-----------------|--------------------------------|
| <b>Symptoms</b> | Causes serious eye irritation. |
|-----------------|--------------------------------|

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

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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                       |                                                                    |
|---------------------------------------|--------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>   | Dry chemical, CO2 or water spray.                                  |
| <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</b> | Exposure to combustion products may be a hazard to health. |
|------------------------------------------|------------------------------------------------------------|

**chemical**

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons. Hydrogen chloride. Nitrogen oxides (NO<sub>x</sub>). Oxides of sulphur.

**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. Cool containers with flooding quantities of water until well after fire is out. Collect contaminated fire extinguishing water separately. Do not allow it to enter drains or surface water.

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

**Personal precautions** Avoid contact with eyes, skin and clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. Use personal protection recommended in Section 8.

**Other information** Refer to protective measures listed in Sections 7 and 8.

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

**6.2. Environmental precautions**

**Environmental precautions** Avoid release to the environment. Do not flush into surface water or sanitary sewer system.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so. Dyke far ahead of liquid spill for later disposal.

**Methods for cleaning up** Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Prevent product from entering drains.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations. Observe good chemical hygiene practices.

**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 eyes, skin and clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Use personal protection recommended in Section 8.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using the product. Wash hands before breaks and after work. Remove contaminated clothing and protective equipment before entering eating areas. Take off all contaminated clothing and wash it before reuse.

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

**Storage Conditions**

Keep in properly labelled containers. Keep containers tightly closed in a cool, well-ventilated place. Keep from freezing.

**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                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------|--------------------------------|
| ACETIC ACID, 2-CHLORO-, SODIUM SALT (1:1), REACTION PRODUCTS WITH 4,5-DIHYDRO-2-UNDECYL-1H-IMIDAZOLE-1-ETHANOL AND SODIUM HYDROXIDE<br>68608-66-2 |      | 8.35 mg/kg bw/day [4] [6] | 5.88 mg/m <sup>3</sup> [4] [6] |

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

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

| Chemical name                                                                                                                                     | Oral                     | Dermal                 | Inhalation                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|--------------------------------|
| ACETIC ACID, 2-CHLORO-, SODIUM SALT (1:1), REACTION PRODUCTS WITH 4,5-DIHYDRO-2-UNDECYL-1H-IMIDAZOLE-1-ETHANOL AND SODIUM HYDROXIDE<br>68608-66-2 | 0.5 mg/kg bw/day [4] [6] | 5 mg/kg bw/day [4] [6] | 1.74 mg/m <sup>3</sup> [4] [6] |

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

**Predicted No Effect Concentration (PNEC)**

| Chemical name | Freshwater | Freshwater (intermittent release) | Marine water | Marine water (intermittent release) | Air |
|---------------|------------|-----------------------------------|--------------|-------------------------------------|-----|
| ACETIC ACID,  | 0.061 mg/L | 0.28 mg/L                         | 0.0061 mg/L  | 0.28 mg/L                           |     |

| Chemical name                                                                                                                     | Freshwater | Freshwater<br>(intermittent release) | Marine water | Marine water<br>(intermittent release) | Air |
|-----------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------|--------------|----------------------------------------|-----|
| 2-CHLORO-, SODIUM SALT (1:1), REACTION PRODUCTS WITH 4,5-DIHYDRO-2-UNDECYL-1H-IMIDAZOLE-1-ETHANOL AND SODIUM HYDROXIDE 68608-66-2 |            |                                      |              |                                        |     |

| Chemical name                                                                                                                                  | Freshwater sediment    | Marine sediment        | Sewage treatment | Soil                | Food chain |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------|---------------------|------------|
| ACETIC ACID, 2-CHLORO-, SODIUM SALT (1:1), REACTION PRODUCTS WITH 4,5-DIHYDRO-2-UNDECYL-1H-IMIDAZOLE-1-ETHANOL AND SODIUM HYDROXIDE 68608-66-2 | 0.24 mg/kg sediment dw | 0.02 mg/kg sediment dw | 56 mg/L          | 0.012 mg/kg soil dw |            |

## 8.2. Exposure controls

### Engineering controls

Ensure adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location.

### 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. 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               |                      |                 |                    |
|----------------------|----------------------|-----------------|--------------------|
| Duration of contact  | PPE - Glove material | Glove thickness | Break through time |
| Short term           | Nitrile rubber       | 0.1 mm          | > 30 minutes       |
| Medium               | Nitrile rubber       | 0.3 mm          | > 240 minutes      |
| Long term (repeated) | Nitrile rubber       | 0.6 mm          | > 480 minutes      |

### Skin and body protection

Wear suitable protective clothing.

### Respiratory protection

None under normal use conditions. In case of inadequate ventilation wear respiratory protection.

### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using the product. Wash hands before breaks and after work. Remove contaminated clothing and protective equipment before entering eating areas. Take off all contaminated clothing and wash it before reuse.

**Environmental exposure controls** Avoid release to the environment. Keep out of drains, sewers, ditches and waterways.

## SECTION 9: Physical and chemical properties

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

|                 |                           |
|-----------------|---------------------------|
| Physical state  | Liquid                    |
| Appearance      | aqueous solution          |
| Colour          | Amber                     |
| Odour           | No information available. |
| Odour threshold | No information available  |

| Property                                | Values                   | Remarks • Method          |
|-----------------------------------------|--------------------------|---------------------------|
| Melting point / freezing point          |                          | No information available. |
| Initial boiling point and boiling range |                          | No information available. |
| Flammability                            |                          | No information available. |
| Flammability Limit in Air               |                          | No information available. |
| Upper flammability or explosive limits  |                          |                           |
| Lower flammability or explosive limits  |                          |                           |
| Flash point                             |                          | No information available. |
| Autoignition temperature                |                          | No information available. |
| Decomposition temperature               |                          | No information available. |
| pH                                      |                          | No information available. |
| pH (as aqueous solution)                | 8.7 - 9.5                | solution (10 %).          |
| Kinematic viscosity                     |                          | No information available. |
| Dynamic viscosity                       | 5000 cP                  | No information available. |
| Water solubility                        | Soluble in water         | No information available. |
| Solubility(ies)                         |                          | No information available. |
| Partition coefficient                   |                          | No information available. |
| Vapour pressure                         | 20 mmHg                  | @ 25 °C.                  |
| Relative density                        |                          | No information available. |
| Bulk density                            |                          | No information available. |
| Liquid Density                          | No information available | No information available. |
| Relative vapour density                 | >1                       | No information available. |
| Particle characteristics                |                          | Not applicable.           |
| Particle Size                           | No information available |                           |
| Particle Size Distribution              | No information available |                           |
| Explosive properties                    | No information available |                           |
| Oxidising properties                    | No information available |                           |

### 9.2. Other information

## 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.

#### 10.4. Conditions to avoid

**Conditions to avoid** Extremes of temperature and direct sunlight.

#### 10.5. Incompatible materials

**Incompatible materials** None known based on information supplied.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

##### Information on likely routes of exposure

##### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Causes serious eye irritation.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

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

**Symptoms** May cause redness and tearing of the eyes.

##### Acute toxicity

##### **Numerical measures of toxicity**

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

**ATEmix (dermal)** 11,430.00 mg/kg

##### **Component Information**

| Chemical name                                                                                                                                      | Oral LD50 | Dermal LD50             | Inhalation LC50 |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|-----------------|
| ACETIC ACID, 2-CHLORO-,<br>SODIUM SALT (1:1),<br>REACTION PRODUCTS WITH<br>4,5-DIHYDRO-2-UNDECYL-1H-<br>MIDAZOLE-1-ETHANOL AND<br>SODIUM HYDROXIDE | -         | > 5236 mg/kg ( Rabbit ) | -               |

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

**Skin corrosion/irritation** Based on available data the classification criteria are not met.

**Serious eye damage/eye irritation** Causes serious eye irritation.

|                                          |                                                                  |
|------------------------------------------|------------------------------------------------------------------|
| <b>Respiratory or skin sensitisation</b> | Based on available data the classification criteria are not met. |
| <b>Germ cell mutagenicity</b>            | Based on available data the classification criteria are not met. |
| <b>Carcinogenicity</b>                   | Based on available data the classification criteria are not met. |
| <b>Reproductive toxicity</b>             | Based on available data the classification criteria are not met. |
| <b>STOT - single exposure</b>            | Based on available data the classification criteria are not met. |
| <b>STOT - repeated exposure</b>          | Based on available data the classification criteria are not met. |
| <b>Aspiration hazard</b>                 | Based on available data the classification criteria are not met. |
| <b>Other adverse effects</b>             | No information available.                                        |

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

| Chemical name                                                                                                                        | Algae/aquatic plants | Fish                              | Toxicity to microorganisms | Crustacea |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------|----------------------------|-----------|
| ACETIC ACID, 2-CHLORO-, SODIUM SALT (1:1), REACTION PRODUCTS WITH 4,5-DIHYDRO-2-UNDECYL-1H-I MIDAZOLE-1-ETHANOL AND SODIUM HYDROXIDE | -                    | LC50: =4.7mg/L (96h, Danio rerio) | -                          | -         |

### 12.2. Persistence and degradability

**Persistence and degradability** There is no data for this product.

### 12.3. Bioaccumulative potential

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

| Chemical name                                                                                                                        | Partition coefficient |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| ACETIC ACID, 2-CHLORO-, SODIUM SALT (1:1), REACTION PRODUCTS WITH 4,5-DIHYDRO-2-UNDECYL-1H-I MIDAZOLE-1-ETHANOL AND SODIUM HYDROXIDE | -1                    |
| ACETIC ACID, 2-CHLORO-, SODIUM SALT (1:1), REACTION PRODUCTS WITH 4,5-DIHYDRO-2-UNDECYL-1H-I MIDAZOLE-1-ETHANOL AND SODIUM HYDROXIDE | -1                    |

**12.4. Mobility in soil**

**Mobility in soil** No information available.

**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         |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| ACETIC ACID, 2-CHLORO-, SODIUM SALT (1:1), REACTION PRODUCTS WITH 4,5-DIHYDRO-2-UNDECYL-1H-1-MIDAZOLE-1-ETHANOL AND SODIUM HYDROXIDE | 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** Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

**Contaminated packaging** Do not reuse empty containers. Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**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**

|                                          |                |
|------------------------------------------|----------------|
| <b>14.1 UN number or ID number</b>       | Not regulated  |
| <b>14.2 UN proper shipping name</b>      | Not regulated  |
| <b>14.3 Transport hazard class(es)</b>   | Not regulated  |
| <b>14.4 Packing group</b>                | Not regulated  |
| <b>14.5 Environmental hazards</b>        | Not applicable |
| <b>14.6 Special precautions for user</b> |                |
| <b>Special Provisions</b>                | 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**

|                      |                                                  |
|----------------------|--------------------------------------------------|
| <b>TSCA</b>          | Contact supplier for inventory compliance status |
| <b>DSL/NDL</b>       | Contact supplier for inventory compliance status |
| <b>EINECS/ELINCS</b> | Contact supplier for inventory compliance status |
| <b>ENCS</b>          | Contact supplier for inventory compliance status |
| <b>IECSC</b>         | Contact supplier for inventory compliance status |
| <b>KECI</b>          | Contact supplier for inventory compliance status |
| <b>PICCS</b>         | Contact supplier for inventory compliance status |
| <b>AIIC</b>          | Contact supplier for inventory compliance status |
| <b>NZIoC</b>         | Contact supplier for inventory compliance status |

**Legend:**

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

**DSL/NDL** - 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

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

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

+ Sensitisers

Revision Note **Not applicable**

#### 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** J Forth

**Revision date** 26-Nov-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**

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**