

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**
**Product Identifier**

Perihalan Produk: Miconazole nitrate, 10 mg/ml in ethanol  
 Product Description: Miconazole nitrate, 10 mg/ml in ethanol  
 Cat No. : J67244

**Relevant identified uses of the substance or mixture and uses advised against**

Recommended Use Laboratory chemicals.  
 Uses advised against No Information available

**Company**

Thermo Fisher Scientific Fisher Scientific (M) Sdn Bhd  
 Hap Seng Business Park, Lot 01-03, 01-04 Aras 1 Unity Square,  
 No 12, Persiaran Perusahaan, Seksyen 23, 40300 Shah Alam,  
 Selangor Darul Ehsan, Malaysia.  
 Main line: +60 3-5525 7888

**Supplier**

E-mail address Enquiry.my@thermofisher.com

**Emergency Telephone Number**

Tel: +03-5525 7888  
 CHEMTREC Malaysia 1-800-815-308 (Malay)  
 CHEMTREC Malaysia (Kuala Lumpur) +(60)-327884561 (Malay)

**SECTION 2: HAZARDS IDENTIFICATION**
**Classification of the substance or mixture**

|  |                   |
|--|-------------------|
| Flammable liquids                                  | Category 2 (H225) |
| Skin Sensitization                                 | Category 1 (H317) |
| Specific target organ toxicity - (single exposure) | Category 2 (H371) |

**Label Elements**


Signal Word

Danger

**Hazard Statements**

H225 - Highly flammable liquid and vapor

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H371 - May cause damage to organs  
H317 - May cause an allergic skin reaction

## Precautionary Statements

### Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P233 - Keep container tightly closed  
P240 - Ground and bond container and receiving equipment  
P242 - Use non-sparking tools  
P243 - Take action to prevent static discharges  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

### Response

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish  
P362 + P364 - Take off contaminated clothing and wash it before reuse  
P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor

### Storage

P403 + P235 - Store in a well-ventilated place. Keep cool

### Disposal

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

## Other Hazards

This product does not contain any known or suspected endocrine disruptors

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Component          | CAS No     | Weight % |
|--------------------|------------|----------|
| Ethyl alcohol      | 64-17-5    | 88.857   |
| Methyl alcohol     | 67-56-1    | 4.9365   |
| Isopropyl alcohol  | 67-63-0    | 4.9365   |
| Miconazole nitrate | 22832-87-7 | 1.27     |

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

#### General Advice

If symptoms persist, call a physician.

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

#### Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

#### Ingestion

Clean mouth with water and drink afterwards plenty of water.

#### Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

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**Self-Protection of the First Aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

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

Difficulty in breathing. May cause allergic skin reaction. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

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

**Notes to Physician** Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**Extinguishing media**

**Suitable Extinguishing Media**

Carbon dioxide (CO<sub>2</sub>). Powder. Water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Water mist may be used to cool closed containers.

**Extinguishing media which must not be used for safety reasons**

No information available.

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

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

**Hazardous Combustion Products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride.

**Advice for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures**

Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges.

**Environmental precautions**

Do not flush into surface water or sanitary sewer system.

**Methods and Material for Containment and Cleaning Up**

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

**Reference to Other Sections**

Refer to protective measures listed in Sections 8 and 13.

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## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

### Conditions for Safe Storage, Including any Incompatibilities

Store in freezer. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame.

### Specific End Uses

Use in laboratories.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

| Component         | Malaysia | ACGIH TLV                             | OSHA PEL   |
|-------------------|----------|---------------------------------------|--|
| Ethyl alcohol     |          | STEL: 1000 ppm                        | (Vacated) TWA: 1000 ppm<br>(Vacated) TWA: 1900 mg/m <sup>3</sup><br>TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>   |
| Methyl alcohol    |          | TWA: 200 ppm<br>STEL: 250 ppm<br>Skin | (Vacated) TWA: 200 ppm<br>(Vacated) TWA: 260 mg/m <sup>3</sup><br>(Vacated) STEL: 250 ppm<br>(Vacated) STEL: 325 mg/m <sup>3</sup><br>Skin<br>TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup> |
| Isopropyl alcohol |          | TWA: 200 ppm<br>STEL: 400 ppm         | (Vacated) TWA: 400 ppm<br>(Vacated) TWA: 980 mg/m <sup>3</sup><br>(Vacated) STEL: 500 ppm<br>(Vacated) STEL: 1225 mg/m <sup>3</sup><br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup>        |

| Component         | European Union   | The United Kingdom  | Germany   |
|-------------------|--|---|---|
| Ethyl alcohol     |  | TWA: 1000 ppm TWA; 1920 mg/m <sup>3</sup><br>TWA<br>WEL - STEL: 3000 ppm STEL;<br>5760 mg/m <sup>3</sup> STEL       | 200 ppm TWA MAK; 380 mg/m <sup>3</sup><br>TWA MAK   |
| Methyl alcohol    | TWA: 200 ppm 8 hr<br>TWA: 260 mg/m <sup>3</sup> 8 hr<br>Skin | WEL - TWA: 200 ppm TWA; 266<br>mg/m <sup>3</sup> TWA<br>WEL - STEL: 250 ppm STEL; 333<br>mg/m <sup>3</sup> STEL     | 100 ppm TWA MAK; 130 mg/m <sup>3</sup><br>TWA MAK<br>Skin absorber  |
| Isopropyl alcohol |  | STEL: 500 ppm 15 min<br>STEL: 1250 mg/m <sup>3</sup> 15 min<br>TWA: 400 ppm 8 hr<br>TWA: 999 mg/m <sup>3</sup> 8 hr | TWA: 200 ppm (8 Stunden). AGW -<br>exposure factor 2<br>TWA: 500 mg/m <sup>3</sup> (8 Stunden). AGW<br>- exposure factor 2<br>TWA: 200 ppm (8 Stunden). MAK<br>TWA: 500 mg/m <sup>3</sup> (8 Stunden). MAK<br>Höhepunkt: 400 ppm<br>Höhepunkt: 1000 mg/m <sup>3</sup> |

### Exposure Controls

#### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to

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control hazardous materials at source

## Personal protective equipment

|                                 |  |
|---------------------------------|--|
| <b>Eye Protection</b>           | Wear safety glasses with side shields (or goggles) |
| <b>Hand Protection</b>          | Protective gloves                                  |
| <b>Skin and body protection</b> | Long sleeved clothing                              |

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.  
(Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

|                                 |   |
|---------------------------------|---|
| <b>Respiratory Protection</b>   | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators   |
| <b>Recommended Filter type:</b> | SCBA<br>To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly<br>When RPE is used a face piece Fit Test should be conducted |

|                                |   |
|--------------------------------|---|
| <b><u>Hygiene Measures</u></b> | Handle in accordance with good industrial hygiene and safety practice |
|--------------------------------|---|

|   |   |
|---|---|
| <b><u>Environmental exposure controls</u></b> | Prevent product from entering drains Do not allow material to contaminate ground water system |
|---|---|

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                     |                          |  |
|-------------------------------------|--------------------------|--|
| <b>Appearance</b>                   |                          |  |
| <b>Physical State</b>               | Liquid                   |  |
| <b>Odor</b>                         | No information available |  |
| <b>Odor Threshold</b>               | No data available        |  |
| <b>pH</b>                           | No information available |  |
| <b>Melting Point/Range</b>          | No data available        |  |
| <b>Softening Point</b>              | No data available        |  |
| <b>Boiling Point/Range</b>          | 78 °C / 172.4 °F         |  |
| <b>Flash Point</b>                  | 17 °C / 62.6 °F          | <b>Method -</b> No information available |
| <b>Evaporation Rate</b>             | No data available        |  |
| <b>Flammability (solid,gas)</b>     | Not applicable           | Liquid                                   |
| <b>Explosion Limits</b>             | No data available        |  |
| <b>Vapor Pressure</b>               | 23 hPa @ 20 °C           |  |
| <b>Vapor Density</b>                | No data available        | (Air = 1.0)                              |
| <b>Specific Gravity / Density</b>   | No data available        |  |
| <b>Bulk Density</b>                 | Not applicable           | Liquid                                   |
| <b>Water Solubility</b>             | Miscible                 |  |
| <b>Solubility in other solvents</b> | No information available |  |

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## Partition Coefficient (n-octanol/water)

| Component         | log Pow |
|-------------------|---------|
| Ethyl alcohol     | -0.32   |
| Methyl alcohol    | -0.74   |
| Isopropyl alcohol | 0.05    |

**Autoignition Temperature** No data available

**Decomposition Temperature** No data available

**Viscosity** No data available

**Explosive Properties**

Vapors may form explosive mixtures with air

**Oxidizing Properties** No information available

## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

None known, based on information available.

### Chemical Stability

Stable under normal conditions.

### Possibility of Hazardous Reactions

**Hazardous Polymerization** No information available.

**Hazardous Reactions** None under normal processing.

### Conditions to Avoid

Keep away from open flames, hot surfaces and sources of ignition.

### Incompatible Materials

Oxidizing agent.

### Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Hydrogen chloride.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Product Information

##### (a) acute toxicity;

**Oral**

Based on available data, the classification criteria are not met

**Dermal**

Based on available data, the classification criteria are not met

**Inhalation**

Based on available data, the classification criteria are not met

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## Toxicology data for the components

| Component          | LD50 Oral                                  | LD50 Dermal                   | LC50 Inhalation               |
|--------------------|--|-------------------------------|-------------------------------|
| Ethyl alcohol      | LD50 = 7060 mg/kg ( Rat )                  | -                             | 20000 ppm/10H ( Rat )         |
| Methyl alcohol     | LD50 = 1187 – 2769 mg/kg (Rat)             | LD50 = 17100 mg/kg ( Rabbit ) | LC50 = 128.2 mg/L ( Rat ) 4 h |
| Isopropyl alcohol  | 5045 mg/kg ( Rat )<br>3600 mg/kg ( Mouse ) | 12800 mg/kg ( Rat )           | 72.6 mg/L ( Rat ) 4 h         |
| Miconazole nitrate | LD50 = 920 mg/kg ( Rat )                   | -                             | -                             |

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;  
Respiratory No data available  
Skin Category 1

| Component                            | Test method   | Test species | Study result    |
|--------------------------------------|---|--------------|-----------------|
| Methyl alcohol<br>67-56-1 ( 4.9365 ) | OECD Test Guideline 406<br>Guinea Pig Maximisation Test<br>(GPMT) | guinea pig   | non-sensitising |

No information available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

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

(g) reproductive toxicity; No data available

| Component                            | Test method             | Test species / Duration          | Study result              |
|--------------------------------------|-------------------------|----------------------------------|---------------------------|
| Methyl alcohol<br>67-56-1 ( 4.9365 ) | OECD Test Guideline 416 | Rat / Inhalation<br>2 Generation | NOAEC =<br>1.3 mg/l (air) |

(h) STOT-single exposure; Category 2

Results / Target organs Central nervous system (CNS), Optic nerve.

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Symptoms / effects, both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

## SECTION 12: ECOLOGICAL INFORMATION

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## Ecotoxicity effects

Contains a substance which is: Toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

| Component         | Freshwater Fish   | Water Flea   | Freshwater Algae   | Microtox  |
|-------------------|---|--|--|---|
| Ethyl alcohol     | Fathead minnow<br>(Pimephales promelas)<br>LC50 = 14200 mg/L/96h  | EC50 = 9268 mg/L/48h<br>EC50 = 10800 mg/L/24h      | EC50 (72h) = 275 mg/l<br>(Chlorella vulgaris)  | Photobacterium<br>phosphoreum:EC50 =<br>34634 mg/L/30 min<br>Photobacterium<br>phosphoreum:EC50 =<br>35470 mg/L/5 min |
| Methyl alcohol    | Pimephales promelas:<br>LC50 > 10000 mg/L 96h   | EC50 > 10000 mg/L 24h                              |  | EC50 = 39000 mg/L 25<br>min<br>EC50 = 40000 mg/L 15<br>min<br>EC50 = 43000 mg/L 5<br>min                              |
| Isopropyl alcohol | LC50: = 9640 mg/L, 96h<br>flow-through<br>(Pimephales promelas)<br>LC50: > 1400000 µg/L,<br>96h (Lepomis<br>macrochirus)<br>LC50: = 11130 mg/L,<br>96h static (Pimephales<br>promelas)<br>LC50: = 10000000 µg/L,<br>96h (Daphnia) | 13299 mg/L EC50 = 48<br>h<br>9714 mg/L EC50 = 24 h | EC50: > 1000 mg/L, 72h<br>(Desmodesmus<br>subspicatus)<br>EC50: > 1000 mg/L, 96h<br>(Desmodesmus<br>subspicatus) | = 35390 mg/L EC50<br>Photobacterium<br>phosphoreum 5 min  |

## Persistence and degradability

### Persistence

Persistence is unlikely, based on information available.

| Component                            | Degradability                  |
|--------------------------------------|--------------------------------|
| Methyl alcohol<br>67-56-1 ( 4.9365 ) | DT50 ~ 17.2d<br>>94% after 20d |

### Degradation in sewage treatment plant

Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

## Bioaccumulative potential

Bioaccumulation is unlikely

| Component         | log Pow | Bioconcentration factor (BCF) |
|-------------------|---------|-------------------------------|
| Ethyl alcohol     | -0.32   | No data available             |
| Methyl alcohol    | -0.74   | <10 dimensionless             |
| Isopropyl alcohol | 0.05    | No data available             |

## Mobility in soil

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Will likely be mobile in the environment due to its volatility. Disperses rapidly in air.

## Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

## Other adverse effects

No information available

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Waste from Residues/Unused Products

Waste is classified as hazardous Dispose of in accordance with the European Directives on waste and hazardous waste Dispose of in accordance with local regulations



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|                               |  |
|-------------------------------|--|
| <b>Contaminated Packaging</b> | Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous Keep product and empty container away from heat and sources of ignition |
| <b>Other Information</b>      | Do not flush to sewer Waste codes should be assigned by the user based on the application for which the product was used Can be landfilled or incinerated, when in compliance with local regulations                                   |

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

|                             |  |
|-----------------------------|--|
| <b>UN-No</b>                | UN1987   |
| <b>Hazard Class</b>         | 3  |
| <b>Packing Group</b>        | III  |
| <b>Proper Shipping Name</b> | ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL), METHANOL) |

### Road and Rail Transport

|                             |  |
|-----------------------------|--|
| <b>UN-No</b>                | UN1987   |
| <b>Hazard Class</b>         | 3  |
| <b>Packing Group</b>        | III  |
| <b>Proper Shipping Name</b> | ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL), METHANOL) |

### IATA

|                             |  |
|-----------------------------|--|
| <b>UN-No</b>                | UN1987   |
| <b>Hazard Class</b>         | 3  |
| <b>Packing Group</b>        | III  |
| <b>Proper Shipping Name</b> | ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL), METHANOL) |

**Special Precautions for User** No special precautions required

## SECTION 15: REGULATORY INFORMATION

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

**International Inventories** X = listed

| Component          | EINECS    | TSCA | DSL | PICCS | ENCS | ISHL | IECSC | AICS | KECL     |
|--------------------|-----------|------|-----|-------|------|------|-------|------|----------|
| Ethyl alcohol      | 200-578-6 | X    | X   | X     | X    | X    | X     | X    | KE-13217 |
| Methyl alcohol     | 200-659-6 | X    | X   | X     | X    | X    | X     | X    | KE-23193 |
| Isopropyl alcohol  | 200-661-7 | X    | X   | X     | X    | X    | X     | X    | KE-29363 |
| Miconazole nitrate | 245-256-6 | -    | X   | -     | -    | -    | -     | -    | -        |

| Component         | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|-------------------|---|--|----------------------------|------------------------------------|
| Ethyl alcohol     |   |  |                            | Annex I - Y42                      |
| Methyl alcohol    | 500 tonne   | 5000 tonne   |                            |                                    |
| Isopropyl alcohol |   |  |                            | Annex I - Y42                      |

### National Regulations

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**Persistent Organic Pollutant**  
**Ozone Depletion Potential**

This product does not contain any known or suspected substance  
This product does not contain any known or suspected substance

## SECTION 16: OTHER INFORMATION

### Legend

**CAS** - Chemical Abstracts Service

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

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

**IECSC** - Chinese Inventory of Existing Chemical Substances

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

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

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

**ENCS** - Japanese Existing and New Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**WEL** - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**RPE** - Respiratory Protective Equipment

**LC50** - Lethal Concentration 50%

**POW** - Partition coefficient Octanol:Water

**TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50%

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**ATE** - Acute Toxicity Estimate

**VOC** - (Volatile Organic Compound)

### **Key literature references and sources for data**

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

**Prepared By**

**Revision Date**

**Revision Summary**

Health, Safety and Environmental Department

31-Mar-2025

Not applicable.

**In accordance with local and national regulations: Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013**

### **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**