

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**

Perihal Produk:

Ethylene oxide solution 2.5-3.3M in Tetrahydrofuran

Product Description:

Ethylene oxide solution 2.5-3.3M in Tetrahydrofuran

Cat No. :

R36117

**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)        |
| Acute oral toxicity                                  | Category 4 (H302)        |
| Acute Inhalation Toxicity - Vapors                   | Category 3 (H331)        |
| Skin Corrosion/Irritation                            | Category 1 (H314)        |
| Serious Eye Damage/Eye Irritation                    | Category 1 (H318)        |
| Germ Cell Mutagenicity                               | Category 1B (H340)       |
| Carcinogenicity                                      | Category 1B (H350)       |
| Reproductive Toxicity                                | Category 1B (H360Fd)     |
| Specific target organ toxicity - (single exposure)   | Category 3 (H335) (H336) |
| Specific target organ toxicity - (repeated exposure) | Category 1 (H372)        |

**Label Elements**

# SAFETY DATA SHEET

Ethylene oxide solution 2.5-3.3M in Tetrahydrofuran

Revision Date 01-Apr-2025



**Signal Word**

**Danger**

## **Hazard Statements**

H225 - Highly flammable liquid and vapor  
H302 - Harmful if swallowed  
H331 - Toxic if inhaled  
H314 - Causes severe skin burns and eye damage  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H340 - May cause genetic defects  
H350 - May cause cancer  
H360Fd - May damage fertility. Suspected of damaging the unborn child  
H372 - Causes damage to organs through prolonged or repeated exposure

## **Precautionary Statements**

### **Prevention**

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
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  
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  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor  
P330 - Rinse mouth  
P331 - Do NOT induce vomiting  
P363 - Wash contaminated clothing before reuse  
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

### **Storage**

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up

### **Disposal**

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

## **Other Hazards**

EUH019 - May form explosive peroxides

This product does not contain any known or suspected endocrine disruptors

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

# SAFETY DATA SHEET

Ethylene oxide solution 2.5-3.3M in Tetrahydrofuran

Revision Date 01-Apr-2025

| Component       | CAS No   | Weight % |
|-----------------|----------|----------|
| Tetrahydrofuran | 109-99-9 | 85-89    |
| Ethylene oxide  | 75-21-8  | 11-15    |

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

#### General Advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

#### Ingestion

Do NOT induce vomiting. Call a physician or poison control center immediately.

#### Inhalation

If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh air. Immediate medical attention is required.

#### 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

Causes burns by all exposure routes. Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

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

#### Notes to Physician

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

#### Suitable Extinguishing Media

Water mist may be used to cool closed containers. CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

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

No information available.

### Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. 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 oxides.

# SAFETY DATA SHEET

Ethylene oxide solution 2.5-3.3M in Tetrahydrofuran

Revision Date 01-Apr-2025

## Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges.

### Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

### 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.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. If peroxide formation is suspected, do not open or move container. 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

Containers should be dated when opened and tested periodically for the presence of peroxides. Should crystals form in a peroxidizable liquid, peroxidation may have occurred and the product should be considered extremely dangerous. In this instance, the container should only be opened remotely by professionals. Keep away from heat, sparks and flame. Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place.

### Specific End Uses

Use in laboratories.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

| Component       | Malaysia | ACGIH TLV                            | OSHA PEL   |
|-----------------|----------|--------------------------------------|--|
| Tetrahydrofuran |          | TWA: 50 ppm<br>STEL: 100 ppm<br>Skin | (Vacated) TWA: 200 ppm<br>(Vacated) TWA: 590 mg/m <sup>3</sup><br>(Vacated) STEL: 250 ppm<br>(Vacated) STEL: 735 mg/m <sup>3</sup><br>TWA: 200 ppm<br>TWA: 590 mg/m <sup>3</sup> |
| Ethylene oxide  |          | TWA: 1 ppm                           | TWA: 1 ppm<br>STEL: 5 ppm  |

# SAFETY DATA SHEET

Ethylene oxide solution 2.5-3.3M in Tetrahydrofuran

Revision Date 01-Apr-2025

| Component       | European Union  | The United Kingdom  | Germany  |
|-----------------|---|---|--|
| Tetrahydrofuran | TWA: 50 ppm (8h)<br>TWA: 150 mg/m <sup>3</sup> (8h)<br>STEL: 100 ppm (15min)<br>STEL: 300 mg/m <sup>3</sup> (15min)<br>Skin | STEL: 100 ppm 15 min<br>STEL: 300 mg/m <sup>3</sup> 15 min<br>TWA: 50 ppm 8 hr<br>TWA: 150 mg/m <sup>3</sup> 8 hr<br>Skin       | TWA: 50 ppm (8 Stunden). AGW - exposure factor 2<br>TWA: 150 mg/m <sup>3</sup> (8 Stunden). AGW - exposure factor 2<br>TWA: 20 ppm (8 Stunden). MAK<br>TWA: 60 mg/m <sup>3</sup> (8 Stunden). MAK<br>Höhepunkt: 40 ppm<br>Höhepunkt: 120 mg/m <sup>3</sup><br>Haut |
| Ethylene oxide  | TWA: 1.8 mg/m <sup>3</sup> (8h)<br>TWA: 1 ppm (8h)<br>Skin  | STEL: 3 ppm 15 min<br>STEL: 5.4 mg/m <sup>3</sup> 15 min<br>TWA: 1 ppm 8 hr<br>TWA: 1.8 mg/m <sup>3</sup> 8 hr<br>Carc.<br>Skin | Haut   |

## Exposure Controls

### Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. 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 control hazardous materials at source

### Personal protective equipment

#### **Eye Protection**

Goggles

#### **Hand Protection**

Protective gloves

#### **Skin and body protection**

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.

#### **Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

#### **Recommended Filter type:**

Particulates filter conforming to EN 143

To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

When RPE is used a face piece Fit Test should be conducted

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

### Environmental exposure controls

No information available

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### **Appearance**

#### **Physical State**

Liquid

#### **Odor**

No information available

# SAFETY DATA SHEET

Ethylene oxide solution 2.5-3.3M in Tetrahydrofuran

Revision Date 01-Apr-2025

|   |                          |   |
|---|--------------------------|---|
| Odor Threshold                          | No data available        |   |
| pH                                      | Not applicable           |   |
| Melting Point/Range                     | No data available        |   |
| Softening Point                         | No data available        |   |
| Boiling Point/Range                     | No information available |   |
| Flash Point                             | No information available | Method - No information available           |
| Evaporation Rate                        | No data available        |   |
| Flammability (solid,gas)                | Not applicable           | Liquid                                      |
| Explosion Limits                        | No data available        |   |
| Vapor Pressure                          | No data available        |   |
| Vapor Density                           | No data available        | (Air = 1.0)                                 |
| Specific Gravity / Density              | No data available        |   |
| Bulk Density                            | Not applicable           | Liquid                                      |
| Water Solubility                        | No information available |   |
| Solubility in other solvents            | No information available |   |
| Partition Coefficient (n-octanol/water) |                          |   |
| Component                               | log Pow                  |   |
| Tetrahydrofuran                         | 0.45                     |   |
| Ethylene oxide                          | -0.3                     |   |
| 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

ALFAAR36117

# SAFETY DATA SHEET

Ethylene oxide solution 2.5-3.3M in Tetrahydrofuran

Revision Date 01-Apr-2025

None known.

## Hazardous Decomposition Products

Carbon oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Product Information

##### (a) acute toxicity;

Oral

Category 4

Dermal

Based on available data, the classification criteria are not met

Inhalation

Category 3

### Toxicology data for the components

| Component       | LD50 Oral               | LD50 Dermal           | LC50 Inhalation                               |
|-----------------|-------------------------|-----------------------|---|
| Tetrahydrofuran | 1650 mg/kg ( Rat )      | > 2000 mg/kg (Rabbit) | 180 mg/L ( Rat ) 1 h<br>53.9 mg/L ( Rat ) 4 h |
| Ethylene oxide  | LD50 = 72 mg/kg ( Rat ) | -                     | LC50 = 800 ppm ( Rat ) 4 h                    |

| Component      | ECHA (RAC) ATE (Oral) | ECHA (RAC) ATE (Dermal) | ECHA (RAC) ATE (Inhalation) |
|----------------|-----------------------|-------------------------|-----------------------------|
| Ethylene oxide | ATE = 100 mg/kg bw    | -                       | ATE = 700 ppm (gas)         |

ECHA (RAC) - Committee for Risk Assessment - European CHemicals Agency  
ATE - Acute Toxicity Estimate; mg/kg bw - milligrams per kilogram of body weight

(b) skin corrosion/irritation; Category 1

(c) serious eye damage/irritation; Category 1

##### (d) respiratory or skin sensitization;

Respiratory

No data available

Skin

No data available

| Component                             | Test method                                       | Test species | Study result    |
|---------------------------------------|---|--------------|-----------------|
| Tetrahydrofuran<br>109-99-9 ( 85-89 ) | Local Lymph Node Assay<br>OECD Test Guideline 429 | mouse        | non-sensitising |

(e) germ cell mutagenicity; Category 1B

| Component                             | Test method   | Test species          | Study result |
|---------------------------------------|---|-----------------------|--------------|
| Tetrahydrofuran<br>109-99-9 ( 85-89 ) | OECD Test Guideline 476<br>Gene cell mutation           | in vivo<br>Mammalian  | negative     |
|                                       | OECD Test Guideline 473<br>Chromosomal aberration assay | in vitro<br>Mammalian | negative     |

(f) carcinogenicity; Category 2

The table below indicates whether each agency has listed any ingredient as a carcinogen  
Limited evidence of a carcinogenic effect

# SAFETY DATA SHEET

Ethylene oxide solution 2.5-3.3M in Tetrahydrofuran

Revision Date 01-Apr-2025

| Component       | EU           | UK | Germany | IARC     |
|-----------------|--------------|----|---------|----------|
| Tetrahydrofuran |              |    |         | Group 2B |
| Ethylene oxide  | Carc Cat. 1B |    | Cat. 2  | Group 1  |

(g) reproductive toxicity; Category 1B

| Component                             | Test method             | Test species / Duration | Study result      |
|---------------------------------------|-------------------------|-------------------------|-------------------|
| Tetrahydrofuran<br>109-99-9 ( 85-89 ) | OECD Test Guideline 416 | Rat<br>2 Generation     | NOAEL = 3,000 ppm |

(h) STOT-single exposure; Category 3

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

(i) STOT-repeated exposure; Category 1

Target Organs None known.

(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. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

**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

### Ecotoxicity effects

| Component       | Freshwater Fish  | Water Flea                                   | Freshwater Algae | Microtox |
|-----------------|--|--|------------------|----------|
| Tetrahydrofuran | 2160 mg/l LC50 = 96 h<br>Pimephales promelas<br>Leuciscus idus: LC50:<br>2820 mg/L/48h | EC50 48 h 3485 mg/l<br>EC50: >10000 mg/L/24h |                  |          |
| Ethylene oxide  | LC50: 73 - 96 mg/L,<br>96h (Pimephales<br>promelas)                                    | LC50: 137 - 300 mg/L,<br>48h (Daphnia magna) |                  |          |

**Persistence and degradability**  
**Persistence** No information available  
Persistence is unlikely.

**Bioaccumulative potential** Bioaccumulation is unlikely

| Component       | log Pow | Bioconcentration factor (BCF) |
|-----------------|---------|-------------------------------|
| Tetrahydrofuran | 0.45    | No data available             |
| Ethylene oxide  | -0.3    | No data available             |

**Mobility in soil** No information available.

### Endocrine Disruptor Information

| Component       | EU - Endocrine Disruptors Candidate List | EU - Endocrine Disruptors - Evaluated Substances |
|-----------------|--|--|
| Tetrahydrofuran | Group III Chemical                       |  |



# SAFETY DATA SHEET

Ethylene oxide solution 2.5-3.3M in Tetrahydrofuran

Revision Date 01-Apr-2025

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

#### **Contaminated Packaging**

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

#### **Other Information**

Waste codes should be assigned by the user based on the application for which the product was used Do not flush to sewer Can be landfilled or incinerated, when in compliance with local regulations Do not empty into drains Large amounts will affect pH and harm aquatic organisms

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

UN-No UN1992  
Hazard Class 3  
Subsidiary Hazard Class 6.1  
Packing Group II  
Proper Shipping Name FLAMMABLE LIQUID, TOXIC, N.O.S. THF/Ethylene oxide

### Road and Rail Transport

UN-No UN1992  
Hazard Class 3  
Subsidiary Hazard Class 6.1  
Packing Group II  
Proper Shipping Name FLAMMABLE LIQUID, TOXIC, N.O.S. THF/Ethylene oxide

### IATA

UN-No UN1992  
Hazard Class 3  
Subsidiary Hazard Class 6.1  
Packing Group II  
Proper Shipping Name FLAMMABLE LIQUID, TOXIC, N.O.S. THF/Ethylene oxide

**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     |
|-----------------|-----------|------|-----|-------|------|------|-------|------|----------|
| Tetrahydrofuran | 203-726-8 | X    | X   | X     | X    | X    | X     | X    | KE-33454 |

# SAFETY DATA SHEET

Ethylene oxide solution 2.5-3.3M in Tetrahydrofuran

Revision Date 01-Apr-2025

|                |           |   |   |   |   |   |   |   |          |
|----------------|-----------|---|---|---|---|---|---|---|----------|
| Ethylene oxide | 200-849-9 | X | X | X | X | X | X | X | KE-27537 |
|----------------|-----------|---|---|---|---|---|---|---|----------|

| 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) |
|----------------|---|--|----------------------------|------------------------------------|
| Ethylene oxide | 5 tonne   | 50 tonne   | X                          |                                    |

## National Regulations

**Persistent Organic Pollutant** This product does not contain any known or suspected substance  
**Ozone Depletion Potential** This product does not contain any known or suspected substance

| Component      | Persistent Organic Pollutant | Ozone Depletion Potential | Pesticides Act 1974 |
|----------------|------------------------------|---------------------------|---------------------|
| Ethylene oxide |                              |                           | X                   |

## 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/NDL** - 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

01-Apr-2025

SDS sections updated.

**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,

# SAFETY DATA SHEET

Ethylene oxide solution 2.5-3.3M in Tetrahydrofuran

Revision Date 01-Apr-2025

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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**