



## Safety Data Sheet

Copyright, 2025, Solventum. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing Solventum products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from Solventum, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

This Safety Data Sheet has been prepared in accordance with the SS586 Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods.

|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| <b>Document group:</b> | 10-3495-8  | <b>Version number:</b>  | 8.00       |
| <b>Issue Date:</b>     | 03/06/2025 | <b>Supersedes date:</b> | 14/03/2024 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M Steri-Gas Sterilisation Cartridges

##### Product Identification Numbers

|                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|
| 70-2007-2768-6 | 70-2007-4128-1 | 70-2007-4129-9 | 70-2007-4130-7 | 70-2007-4132-3 |
| 70-2007-4133-1 | 70-2007-4134-9 | 70-2007-4135-6 | 70-2007-4136-4 | 70-2007-4137-2 |
| 70-2007-4138-0 | 70-2007-4140-6 | 70-2007-4142-2 | 70-2007-7124-7 | 70-2007-7125-4 |
| 70-2007-8376-2 | 70-2007-8377-0 | 70-2007-8378-8 | 70-2007-8379-6 | 70-2007-8380-4 |
| 70-2007-8381-2 | 70-2007-8382-0 | 70-2007-8383-8 | 70-2007-8384-6 | 70-2007-8385-3 |
| 71-0001-2852-1 | 71-0001-6995-4 | 71-0001-6996-2 | UU-0133-0597-2 | UU-0133-0598-0 |
| UU-0133-0599-8 | UU-0133-0741-6 | UU-0133-0743-2 |                |                |

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Gas to sterilize in a 3M Steri-Vac(TM) Ethylene Oxide Sterilizer

#### 1.3. Supplier's details

|                   |   |
|-------------------|---|
| <b>Address:</b>   | KCI Medical Asia Pte. Ltd. 10 Ang Mo Kio Street 65 #01-01, Techpoint, Singapore, 569059 |
| <b>Telephone:</b> | +65 6577 1266   |
| <b>Website:</b>   | Solventum.com   |

#### 1.4. Emergency telephone number

+65 3158 1349; (24/7) +1-703-527-3887; (24/7)

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

Flammable Gas: Category 1A.

Gas under pressure: Liquefied gas.

Acute Toxicity (oral): Category 3.

Acute Toxicity (inhalation): Category 3.

Skin Corrosion/Irritation: Category 1.

Serious Eye Damage/Irritation: Category 1.

Germ Cell Mutagenicity: Category 1B.

Carcinogenicity: Category 1A.

Reproductive Toxicity: Category 1B.  
 Specific Target Organ Toxicity (single exposure): Category 1.  
 Specific Target Organ Toxicity (repeated exposure): Category 1.  
 Specific Target Organ Toxicity (single exposure): Category 3.

## 2.2. Label elements

### SIGNAL WORD

DANGER!

### Symbols

Flame | Gas cylinder | Corrosion | Skull and crossbones | Health Hazard |

### Pictograms



### HAZARD STATEMENTS

|             |   |
|-------------|---|
| H220        | Extremely flammable gas.  |
| H280        | Contains gas under pressure; may explode if heated.   |
| H301 + H311 | Toxic if swallowed or in contact with skin.   |
| H301 + H331 | Toxic if swallowed or if inhaled.   |
| H314        | Causes severe skin burns and eye damage.  |
| H340        | May cause genetic defects.  |
| H350        | May cause cancer.   |
| H360        | May damage fertility or the unborn child.   |
| H336        | May cause drowsiness or dizziness.  |
| H370        | Causes damage to organs: respiratory system.  |
| H372        | Causes damage to organs through prolonged or repeated exposure: nervous system.                           |
| H373        | May cause damage to organs through prolonged or repeated exposure: kidney/urinary tract   sensory organs. |

### PRECAUTIONARY STATEMENTS

#### Prevention:

|       |   |
|-------|---|
| P201  | Obtain special instructions before use.   |
| P260  | Do not breathe dust/fume/gas/mist/vapours/spray.  |
| P280J | Wear protective gloves, protective clothing, respiratory protection, eye protection, and face protection. |

#### Response:

|                    |  |
|--------------------|--|
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                           |
| 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.  |
| P377               | Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  |
| P381               | In case of leakage, eliminate all ignition sources.  |

#### Storage:

|             |  |
|-------------|--|
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
|-------------|--|

P410 + P403

Protect from sunlight. Store in a well-ventilated place.

**2.3. Other hazards**

May cause frostbite. - May cause chemical gastrointestinal burns.

**SECTION 3: Composition/information on ingredients**

This material is a substance.

| <b>Ingredient</b> | <b>CAS Nbr</b> | <b>% by Wt</b> |
|-------------------|----------------|----------------|
| Ethylene oxide    | 75-21-8        | 100            |

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

Remove person to fresh air. Get medical attention.

**Skin contact**

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

**Eye contact**

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

**If swallowed**

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

Toxic if inhaled. Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). Toxic if swallowed. Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. See Section 11 for additional details. Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**In case of fire: Use a water spray or fog to extinguish, do not use straight streams. If water is not available use dry chemical, CO<sub>2</sub>, or foam to extinguish. Refer to other precautionary advice in SDS section 5. Use a fire fighting agent suitable for the surrounding fire.**5.2. Special hazards arising from the substance or mixture**

Closed containers exposed to heat from fire may build pressure and explode.

**Hazardous Decomposition or By-Products****Substance**Carbon monoxide.  
Carbon dioxide.**Condition**During combustion.  
During combustion.**5.3. Special protective actions for fire-fighters**

Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

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

Evacuate area. Eliminate all ignition sources if safe to do so. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.

### 6.2. Environmental precautions

Avoid release to the environment.

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

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Close cylinder. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not use in a confined area with minimal air exchange. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Eliminate all ignition sources if safe to do so. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required. Recommendations for storing Steri-Gas cartridges are stringent. Check your local fire protection codes for additional requirements. Keep all sources of ignition such as matches, lighted cigarettes, sparks and static discharge away from the sterilizer and cartridges. Store cartridges in an upright position. Keep only one day's requirement or a maximum of twelve(12) cartridges (one box) in the immediate sterilizer area. This area needs to have at least ten air changes per hour. Additional Steri-Gas cartridges should be stored in an approved flammable liquid storage cabinet vented to the outside atmosphere, or in an area suitable for storage of flammable liquids appropriately vented to the outside atmosphere, or into a non-recirculating, continuously operating, dedicated exhaust system.

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

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Store away from heat. Do not expose to temperatures exceeding 50 C/ 122 F. Store away from acids. Store away from oxidising agents. Store away from areas where product may come into contact with food or pharmaceuticals.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient     | CAS Nbr | Agency         | Limit type               | Additional comments   |
|----------------|---------|----------------|--------------------------|---|
| Ethylene oxide | 75-21-8 | ACGIH          | TWA:1 ppm                | A2: Suspected human carcin., Danger of cutaneous absorption |
| Ethylene oxide | 75-21-8 | Singapore PELs | TWA(8 hours):1.8 mg/m3(1 |   |

|  |  |  |      |  |
|--|--|--|------|--|
|  |  |  | ppm) |  |
|--|--|--|------|--|

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

Singapore PELs : Singapore. Workplace Safety and Health (Permissible Exposure Levels of Toxic Substances) Order

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Use general dilution ventilation ... with independent air supply Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment with independent air supply

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full face shield.

Indirect vented goggles.

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

Polymer laminate - PE/EVAL/PE

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an Apron - polymer laminate

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

#### Thermal hazards

Wear cold insulating gloves/face shield/eye protection.

## SECTION 9: Physical and chemical properties

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

|                                |                 |
|--------------------------------|-----------------|
| <b>Physical state</b>          | Gas.            |
| <b>Specific Physical Form:</b> | Compressed gas. |
| <b>Color</b>                   | Colorless       |

|  |   |
|--|---|
| <b>Odor</b>  | Faint Ether   |
| <b>Odour threshold</b>                                   | <i>No data available.</i>   |
| <b>pH</b>  | 7   |
| <b>Melting point/Freezing point</b>                      | <i>Not applicable.</i>  |
| <b>Boiling point/Initial boiling point/Boiling range</b> | 10.6 °C   |
| <b>Flash point</b>                                       | -20 °C [ <i>Test Method:</i> Tagliabue closed cup]                  |
| <b>Evaporation rate</b>                                  | <i>Not applicable.</i>  |
| <b>Flammability</b>                                      | Flammable gas: Category 1.  |
| <b>Flammable Limits(LEL)</b>                             | 3 % volume  |
| <b>Flammable Limits(UEL)</b>                             | 100 % volume  |
| <b>Vapour pressure</b>                                   | 145,854.3 Pa [ <i>@ 20 °C</i> ]                                     |
| <b>Relative Vapor Density</b>                            | 1.49 [ <i>Ref Std:</i> AIR=1]                                       |
| <b>Density</b>   | <i>Not applicable.</i>  |
| <b>Relative density</b>                                  | 0.87 [ <i>Ref Std:</i> WATER=1] [ <i>Details:</i> @ 20 °C]          |
| <b>Water solubility</b>                                  | Complete  |
| <b>Solubility- non-water</b>                             | <i>No data available.</i>   |
| <b>Partition coefficient: n-octanol/water</b>            | <i>No data available.</i>   |
| <b>Autoignition temperature</b>                          | 428.9 °C [ <i>Details:</i> CONDITIONS: Burns in the absence of air] |
| <b>Decomposition temperature</b>                         | <i>Not applicable.</i>  |
| <b>Kinematic Viscosity</b>                               | <i>Not applicable.</i>  |
| <b>Volatile organic compounds (VOC)</b>                  | 100 %   |
| <b>Percent volatile</b>                                  | 100 %   |
| <b>VOC less H<sub>2</sub>O &amp; exempt solvents</b>     | 100 %   |
| <b>Molecular weight</b>                                  | <i>No data available.</i>   |

|                                 |                        |
|---------------------------------|------------------------|
| <b>Particle Characteristics</b> | <i>Not applicable.</i> |
|---------------------------------|------------------------|

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non reactive under normal use conditions

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation may occur.

### 10.4 Conditions to avoid

Heat.

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

#### Substance

None known.

#### Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

##### Inhalation

Toxic if inhaled.

May cause additional health effects (see below).

##### Skin contact

Frostbite: Signs/symptoms may include intense pain, discoloration of skin, and tissue destruction. Corrosive (skin burns): Signs/symptoms may include localised redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

##### Eye contact

Frostbite: Signs/symptoms may include intense pain, clouding of the cornea, redness, swelling, and blindness. Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

##### Ingestion

Toxic if swallowed.

Gastrointestinal corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the faeces and/or vomitus may also be seen.

#### Additional Health Effects:

##### Single exposure may cause target organ effects:

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure.

##### Prolonged or repeated exposure may cause target organ effects:

Ocular effects: Signs/symptoms may include blurred or significantly impaired vision. Peripheral neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy. Kidney/Bladder effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

##### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

##### Genotoxicity:

Genotoxicity and Mutagenicity: May interact with genetic material and possibly alter gene expression.

##### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

### Acute Toxicity

| Name           | Route                    | Species                 | Value          |
|----------------|--------------------------|-------------------------|----------------|
| Ethylene oxide | Inhalation-Gas (4 hours) | official classification | LC50 700 ppm   |
| Ethylene oxide | Ingestion                | official classification | LD50 100 mg/kg |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name           | Species          | Value     |
|----------------|------------------|-----------|
| Ethylene oxide | Human and animal | Corrosive |

### Serious Eye Damage/Irritation

| Name           | Species                | Value     |
|----------------|------------------------|-----------|
| Ethylene oxide | similar health hazards | Corrosive |

### Sensitization:

#### Skin Sensitisation

| Name           | Species          | Value          |
|----------------|------------------|----------------|
| Ethylene oxide | Human and animal | Not classified |

#### Respiratory Sensitisation

| Name           | Species | Value          |
|----------------|---------|----------------|
| Ethylene oxide | Human   | Not classified |

#### Germ Cell Mutagenicity

| Name           | Route   | Value     |
|----------------|---------|-----------|
| Ethylene oxide | In vivo | Mutagenic |

#### Carcinogenicity

| Name           | Route      | Species                 | Value         |
|----------------|------------|-------------------------|---------------|
| Ethylene oxide | Inhalation | Multiple animal species | Carcinogenic. |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name           | Route      | Value                        | Species | Test result  | Exposure Duration    |
|----------------|------------|------------------------------|---------|--------------|----------------------|
| Ethylene oxide | Inhalation | Toxic to development         | Rat     | NOAEL 33 ppm | during organogenesis |
| Ethylene oxide | Inhalation | Toxic to female reproduction | Rat     | NOAEL 33 ppm | 1 generation         |
| Ethylene oxide | Inhalation | Toxic to male reproduction   | Monkey  | LOAEL 50 ppm | 2 years              |



**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name           | Route      | Target Organ(s)                   | Value                             | Species          | Test result         | Exposure Duration |
|----------------|------------|-----------------------------------|-----------------------------------|------------------|---------------------|-------------------|
| Ethylene oxide | Inhalation | respiratory system                | Causes damage to organs           | Human and animal | NOAEL Not available |                   |
| Ethylene oxide | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human            | NOAEL Not available |                   |
| Ethylene oxide | Inhalation | respiratory irritation            | May cause respiratory irritation  |                  | NOAEL Not available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name           | Route      | Target Organ(s)           | Value  | Species                 | Test result         | Exposure Duration |
|----------------|------------|---------------------------|--|-------------------------|---------------------|-------------------|
| Ethylene oxide | Inhalation | peripheral nervous system | Causes damage to organs through prolonged or repeated exposure               | Human and animal        | NOAEL Not available |                   |
| Ethylene oxide | Inhalation | kidney and/or bladder     | May cause damage to organs though prolonged or repeated exposure             | Mouse                   | LOAEL 100 ppm       | 14 weeks          |
| Ethylene oxide | Inhalation | eyes                      | May cause damage to organs though prolonged or repeated exposure             | Human and animal        | NOAEL Not available |                   |
| Ethylene oxide | Inhalation | respiratory system        | Some positive data exist, but the data are not sufficient for classification | Mouse                   | LOAEL 200 ppm       | 14 weeks          |
| Ethylene oxide | Inhalation | endocrine system          | Not classified   | Rat                     | NOAEL 100 ppm       | 2 years           |
| Ethylene oxide | Inhalation | liver                     | Not classified   | Multiple animal species | NOAEL 841 ppm       | not available     |
| Ethylene oxide | Inhalation | hematopoietic system      | Not classified   | Mouse                   | NOAEL 250 ppm       | 10 weeks          |
| Ethylene oxide | Inhalation | immune system             | Not classified   | Mouse                   | LOAEL 200 ppm       | 14 weeks          |
| Ethylene oxide | Inhalation | heart                     | Not classified   | Monkey                  | NOAEL 100 ppm       | 2 years           |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity****Acute aquatic hazard:**

GHS Acute 3: Harmful to aquatic life.

**Chronic aquatic hazard:**

### 3M Steri-Gas Sterilisation Cartridges

Not chronically toxic to aquatic life by GHS criteria.

| Material                              | Organism       | Type       | Exposure | Test endpoint | Test result |
|---------------------------------------|----------------|------------|----------|---------------|-------------|
| 3M Steri-Gas Sterilisation Cartridges | Water flea     | Laboratory | 48 hours | N/A           | 137 mg/l    |
| 3M Steri-Gas Sterilisation Cartridges | Fathead minnow | Laboratory | 96 hours | N/A           | 84 mg/l     |
| 3M Steri-Gas Sterilisation Cartridges | Goldfish       | Laboratory | 24 hours | N/A           | 90 mg/l     |

#### 12.2. Persistence and degradability

| Material       | CAS Nbr | Test type                   | Duration | Study Type                  | Test result       | Protocol                  |
|----------------|---------|-----------------------------|----------|-----------------------------|-------------------|---------------------------|
| Ethylene oxide | 75-21-8 | Experimental Biodegradation | 28 days  | BOD                         | 107 %BOD/ThOD     | OECD 301C - MITI test (I) |
| Ethylene oxide | 75-21-8 | Experimental Hydrolysis     |          | Hydrolytic half-life (pH 7) | 12.9 days (t 1/2) |                           |

#### 12.3 : Bioaccumulative potential

| Material       | CAS Nbr | Test type                     | Duration | Study Type | Test result | Protocol                         |
|----------------|---------|-------------------------------|----------|------------|-------------|----------------------------------|
| Ethylene oxide | 75-21-8 | Experimental Bioconcentration |          | Log Kow    | -0.3        | OECD 107 log Kow shake flask mtd |

#### 12.4. Mobility in soil

Please contact manufacturer for more details

#### 12.5 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. The facility should be equipped to handle gaseous waste. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

## SECTION 14: Transport Information

#### International Regulations

UN No.: UN1040

UN Proper shipping name: Ethylene oxide

Transportation Class (IMO): 2.1-2.1 Flammable gases, 2.3-2.3 Toxic gas

**Transportation Class (IATA):** 2.1-2.1 Flammable gases, 2.3-2.3 Toxic gas

**Other Dangerous Goods Descriptions (IMO):** None assigned

**Other Dangerous Goods Descriptions (IATA):** None assigned

**Packing Group:** None assigned

**Marine pollutant:** None assigned

## **SECTION 15: Regulatory information**

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

#### **Global inventory status**

Contact 3M for more information.

#### **This product may contain component(s) that are regulated by the following:**

Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations: this product is subject to SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management (Hazardous Substances) Regulations: This product is subject to the requirements in the Regulations

## **SECTION 16: Other information**

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

**Solventum Singapore SDSs are available at [Solventum.com](https://www.solventum.com)**