

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

|                                  |                                  |
|----------------------------------|----------------------------------|
| <b>Product Description:</b>      | <b>Dichloromethane</b>           |
| <b>Cat No. :</b>                 | <b>D/1855/17</b>                 |
| <b>Synonyms</b>                  | Dichloromethane; DCM             |
| <b>Index No</b>                  | 602-004-00-3                     |
| <b>CAS No</b>                    | 75-09-2                          |
| <b>EC No</b>                     | 200-838-9                        |
| <b>Molecular Formula</b>         | C H <sub>2</sub> Cl <sub>2</sub> |
| <b>REACH registration number</b> | 01-2119480404-41                 |

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

|                                       |   |
|---------------------------------------|---|
| <b>Recommended Use</b>                | Laboratory chemicals.   |
| <b>Sector of use</b>                  | SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites    |
| <b>Product category</b>               | PC21 - Laboratory chemicals   |
| <b>Process categories</b>             | PROC15 - Use as a laboratory reagent  |
| <b>Environmental release category</b> | ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates) |
| <b>Uses advised against</b>           | REACH Annex XVII Restriction - refer to SECTION 15  |

### 1.3. Details of the supplier of the safety data sheet

#### Company

**UK entity/business name**  
Fisher Scientific UK  
Bishop Meadow Road, Loughborough,  
Leicestershire LE11 5RG, United Kingdom

**EU entity/business name**  
Thermo Fisher Scientific  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

**E-mail address** begel.sdsdesk@thermofisher.com

### 1.4. Emergency telephone number

Tel: 01509 231166  
Chemtrec US: (800) 424-9300  
Chemtrec EU: 001-703-527-3887

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

**GHS Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567**

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## Physical hazards

Based on available data, the classification criteria are not met

## Health hazards

Skin Corrosion/Irritation

Category 2 (H315)

Serious Eye Damage/Eye Irritation

Category 2 (H319)

Carcinogenicity

Category 2 (H351)

Specific target organ toxicity - (single exposure)

Category 3 (H336)

## Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

## 2.2. Label elements



Signal Word

Warning

## Hazard Statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer

The vapor has narcotic effect and in high concentrations induces unconsciousness which can be fatal

## Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P284 - Wear respiratory protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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

P312 - Call a POISON CENTER or doctor if you feel unwell

## Additional EU labelling

Restricted to industrial use and to approved professionals

## 2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)  
Causes formation of carbon monoxide in the blood. Carbon monoxide may cause adverse effects on the cardiovascular system and the central nervous system

The vapor has narcotic effect and in high concentrations induces unconsciousness which can be fatal

Do not use in areas without adequate ventilation.

Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing

Decomposes in a fire, giving off toxic fumes: phosgene and hydrochloric acid, Carbon monoxide

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers

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This product does not contain any known or suspected endocrine disruptors

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

| Component          | CAS No  | EC No             | Weight % | GHS Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567 |
|--------------------|---------|-------------------|----------|---|
| Methylene chloride | 75-09-2 | EEC No. 200-838-9 | >99.5    | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 (H336)<br>Carc. 2 (H351)       |

#### Note

Stabilised with Amylene (CAS 513-35-9)

|                           |                  |
|---------------------------|------------------|
| REACH registration number | 01-2119480404-41 |
|---------------------------|------------------|

Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. 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.      |
| Self-Protection of the First Aider | Use personal protective equipment as required.  |

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

Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Causes central nervous system depression: Continued or high exposures by inhalation will cause anaesthetic effects. This may result in a loss of consciousness and could prove fatal: Causes formation of carbon monoxide in the blood. Carbon monoxide may cause adverse effects on the cardiovascular system and the central nervous system

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

|                    |  |
|--------------------|--|
| Notes to Physician | A patient adversely affected by exposure to this product should not be given adrenaline (epinephrine) or similar heart stimulant since these would increase the risk of cardiac arrhythmias. Treat symptomatically. Symptoms may be delayed. |
|--------------------|--|

## SECTION 5: FIREFIGHTING MEASURES

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## 5.1. Extinguishing media

### **Suitable Extinguishing Media**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

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

No information available.

## 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

### **Hazardous Combustion Products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Phosgene, Hydrogen chloride gas.

## 5.3. Advice for firefighters

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**

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

Use personal protective equipment as required. Ensure adequate ventilation. Avoid breathing vapors or mists. Wear respiratory protection.

### 6.2. Environmental precautions

Should not be released into the environment.

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

Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Ventilate the area.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## **SECTION 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Vapors are heavier than air and may spread along floors. Handle product only in closed system or provide appropriate exhaust ventilation. Reacts with aluminum and its alloys.

### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store in aluminum containers.

**Technical Rules for Hazardous Substances (TRGS) 510**

Class 6.1D

FSUD1855

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Storage Class (LGK) (Germany)

## 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

List source(s): **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC **UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020. **IRE** - 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

| Component          | The United Kingdom   | European Union   | Ireland  |
|--------------------|--|--|--|
| Methylene chloride | STEL: 200 ppm 15 min<br>STEL: 706 mg/m <sup>3</sup> 15 min<br>TWA: 353 mg/m <sup>3</sup> 8 hr<br>TWA: 100 ppm 8 hr<br>Skin | TWA: 353 mg/m <sup>3</sup> (8h)<br>TWA: 100 ppm (8h)<br>STEL: 706 mg/m <sup>3</sup> (15min)<br>STEL: 200 ppm (15min)<br>Skin | TWA: 100 ppm 8 hr.<br>TWA: 353 mg/m <sup>3</sup> 8 hr.<br>STEL: 200 ppm 15 min<br>STEL: 706 mg/m <sup>3</sup> 15 min<br>Skin |

#### Biological limit values

List source(s): **UK** - Biological Monitoring Guidance Values provided by the UK's Health and Safety Executive (HSE) Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended) and EH40/2005.

| Component          | United Kingdom                                      | European Union |
|--------------------|---|----------------|
| Methylene chloride | Carbon monoxide: 30 ppm end-tidal breath post shift |                |

#### Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

| Component                               | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|---|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Methylene chloride<br>75-09-2 ( >99.5 ) |                              |                                 |                                | DNEL = 12mg/kg bw/day             |

| Component                               | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|---|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| Methylene chloride<br>75-09-2 ( >99.5 ) |                                  | DMEL = 132.14mg/m <sup>3</sup>      |                                    | DNEL = 176mg/m <sup>3</sup>           |

#### Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC). See values below.

| Component                               | Fresh water                       | Fresh water sediment  | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture)                                  |
|---|-----------------------------------|---|--------------------|------------------------------------|---|
| Methylene chloride<br>75-09-2 ( >99.5 ) | PNEC = 130µg/L<br>PNEC = 0.31mg/L | PNEC = 163µg/kg sediment dw<br>PNEC = 2.57mg/kg sediment dw | PNEC = 0.27mg/L    | PNEC = 26mg/L                      | PNEC = 173µg/kg soil dw<br>PNEC = 0.33mg/kg soil dw |

| Component | Marine water | Marine water | Marine water | Food chain | Air |
|-----------|--------------|--------------|--------------|------------|-----|
|-----------|--------------|--------------|--------------|------------|-----|

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|   |                                    |   |                     |  |  |
|---|------------------------------------|---|---------------------|--|--|
|   |                                    | <b>sediment</b>   | <b>intermittent</b> |  |  |
| Methylene chloride<br>75-09-2 ( >99.5 ) | PNEC = 130µg/L<br>PNEC = 0.031mg/L | PNEC = 163µg/kg<br>sediment dw<br>PNEC = 0.26mg/kg<br>sediment dw | PNEC = 0.027mg/L    |  |  |

## 8.2. Exposure controls

### Engineering Measures

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

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 (European standard - EN 166)

#### Hand Protection

Protective gloves

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments   |
|----------------|-------------------|-----------------|-------------|--|
| Viton (R)      | < 120 minutes     | 0.7 mm          | EN 374      | As tested under EN374-3 Determination of Resistance to Permeation by Chemicals |
| Nitrile rubber | < 4 minutes       | 0.38 mm         |             |  |
| PVA            | > 360 minutes     |                 |             |  |

#### 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 compatibility, 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

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

#### Large scale/emergency use

In case of insufficient ventilation, wear suitable respiratory equipment: Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive pressure mode:

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators: full face mask (DIN EN 136)

**Recommended Filter type:** low boiling organic solvent Type AX Brown conforming to EN371

#### Small scale/Laboratory use

Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Recommended half mask:-** Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141

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

#### Environmental exposure controls

No information available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

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|   |  |  |
|---|--|--|
| Physical State                          | Liquid                                       |  |
| Appearance                              | Colorless                                    |  |
| Odor                                    | sweet  |  |
| Odor Threshold                          | No data available                            |  |
| Melting Point/Range                     | -97 °C / -142.6 °F                           |  |
| Softening Point                         | No data available                            |  |
| Boiling Point/Range                     | 39 °C / 102.2 °F                             |  |
| Flammability (liquid)                   | No data available                            |  |
| Flammability (solid,gas)                | Not applicable                               | Liquid                                   |
| Explosion Limits                        | <b>Lower</b> 13 vol%<br><b>Upper</b> 22 vol% |  |
| Flash Point                             | No information available                     | <b>Method -</b> No information available |
| Autoignition Temperature                | 556 °C / 1032.8 °F                           |  |
| Decomposition Temperature               | No data available                            |  |
| pH                                      | Not applicable                               | Insoluble in water                       |
| Viscosity                               | 0.42 mPas @ 25°C                             |  |
| Water Solubility                        | 20 g/L (20°C)                                |  |
| Solubility in other solvents            | No information available                     |  |
| Partition Coefficient (n-octanol/water) |  |  |
| Component                               | <b>log Pow</b>                               |  |
| Methylene chloride                      | 1.25   |  |
| Vapor Pressure                          | 350 mbar @ 20°C                              |  |
| Density / Specific Gravity              | 1.33   |  |
| Bulk Density                            | Not applicable                               | Liquid                                   |
| Vapor Density                           | 2.93   | (Air = 1.0)                              |
| Particle characteristics                | Not applicable (liquid)                      |  |

## 9.2. Other information

|                   |          |
|-------------------|----------|
| Molecular Formula | C H2 Cl2 |
| Molecular Weight  | 84.93    |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None known, based on information available

### 10.2. Chemical stability

Stable under normal conditions. Decomposes on exposure to light.

### 10.3. Possibility of hazardous reactions

|                          |   |
|--------------------------|---|
| Hazardous Polymerization | Hazardous polymerization does not occur.    |
| Hazardous Reactions      | Forms a detonable mixture with nitric acid. |

### 10.4. Conditions to avoid

Excess heat. Protect from direct sunlight.

### 10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Amines.

### 10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Phosgene. Hydrogen chloride gas.

## SECTION 11: TOXICOLOGICAL INFORMATION

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## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### 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

| Component          | LD50 Oral            | LD50 Dermal          | LC50 Inhalation  |
|--------------------|----------------------|----------------------|--|
| Methylene chloride | > 2000 mg/kg ( Rat ) | > 2000 mg/kg ( Rat ) | 53 mg/L ( Rat ) 6 h<br>76000 mg/m <sup>3</sup> ( Rat ) 4 h |

**(b) skin corrosion/irritation;** Category 2

**(c) serious eye damage/irritation;** Category 2

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

Respiratory

Based on available data, the classification criteria are not met

Skin

Based on available data, the classification criteria are not met

**(e) germ cell mutagenicity;** Based on available data, the classification criteria are not met

**(f) carcinogenicity;** Category 2

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

| Component          | EU | UK | Germany | IARC     |
|--------------------|----|----|---------|----------|
| Methylene chloride |    |    |         | Group 2A |

**(g) reproductive toxicity;** Based on available data, the classification criteria are not met

**(h) STOT-single exposure;** Category 3

Results / Target organs

Central nervous system (CNS).

**(i) STOT-repeated exposure;** Based on available data, the classification criteria are not met

Target Organs

None known.

**(j) aspiration hazard;** Based on available data, the classification criteria are not met

**Other Adverse Effects**

Tumorigenic effects have been reported in experimental animals.

**Symptoms / effects, both acute and delayed**

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Causes central nervous system depression. Continued or high exposures by inhalation will cause anaesthetic effects. This may result in a loss of consciousness and could prove fatal. Causes formation of carbon monoxide in the blood. Carbon monoxide may cause adverse effects on the cardiovascular system and the central nervous system.

## 11.2. Information on other hazards

**Endocrine Disrupting Properties**  
**Assess endocrine disrupting**

.  
Contains a substance on the National Authorities Endocrine Disruptor Lists



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properties for human health

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity effects

| Component          | Freshwater Fish                        | Water Flea         | Freshwater Algae   |
|--------------------|--|--------------------|--------------------|
| Methylene chloride | Pimephales promelas: LC50:193 mg/L/96h | EC50: 140 mg/L/48h | EC50:>660 mg/L/96h |

| Component          | Microtox                                    | M-Factor |
|--------------------|---|----------|
| Methylene chloride | EC50: 1 mg/L/24 h<br>EC50: 2.88 mg/L/15 min |          |

### 12.2. Persistence and degradability

Persistence

Persistence is unlikely, based on information available.

### 12.3. Bioaccumulative potential

Bioaccumulation is unlikely

| Component          | log Pow | Bioconcentration factor (BCF) |
|--------------------|---------|-------------------------------|
| Methylene chloride | 1.25    | 6.4 - 40 dimensionless        |

### 12.4. 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.

### 12.5. Results of PBT and vPvB assessment

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).

### 12.6. Endocrine disrupting properties

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

### 12.7. Other adverse effects

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 13: DISPOSAL CONSIDERATIONS

### 13.1. 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.

European Waste Catalogue (EWC)

According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

Other Information

Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.

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## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

**14.1. UN number** UN1593  
**14.2. UN proper shipping name** Dichloromethane  
**14.3. Transport hazard class(es)** 6.1  
**14.4. Packing group** III

### ADR

**14.1. UN number** UN1593  
**14.2. UN proper shipping name** Dichloromethane  
**14.3. Transport hazard class(es)** 6.1  
**14.4. Packing group** III

### IATA

**14.1. UN number** UN1593  
**14.2. UN proper shipping name** Dichloromethane  
**14.3. Transport hazard class(es)** 6.1  
**14.4. Packing group** III

**14.5. Environmental hazards** No hazards identified  
**14.6. Special precautions for user** No special precautions required.  
**14.7. Maritime transport in bulk according to IMO instruments** Not applicable, packaged goods

## SECTION 15: REGULATORY INFORMATION

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

#### International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| Component          | CAS No  | EINECS    | ELINCS | NLP | IECSC | TCSI | KECL     | ENCS | ISHL |
|--------------------|---------|-----------|--------|-----|-------|------|----------|------|------|
| Methylene chloride | 75-09-2 | 200-838-9 | -      | -   | X     | X    | KE-23893 | X    | X    |

| Component          | CAS No  | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|--------------------|---------|------|---|-----|------|------|-------|-------|
| Methylene chloride | 75-09-2 | X    | ACTIVE  | X   | -    | X    | X     | X     |

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

### Authorisation/Restrictions according to EU REACH

| Component | CAS No | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|-----------|--------|---|---|---|
|           |        |   |   |   |

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|                    |         |   |  |   |
|--------------------|---------|---|--|---|
| Methylene chloride | 75-09-2 | - | Use restricted. See entry 59.<br>(see link for restriction details)<br>Use restricted. See entry 75.<br>(see link for restriction details) | - |
|--------------------|---------|---|--|---|

## REACH links

<https://echa.europa.eu/substances-restricted-under-reach>

Restricted to industrial use and to approved professionals.

## Seveso III Directive (2012/18/EC)

| Component          | CAS No  | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|--------------------|---------|---|--|
| Methylene chloride | 75-09-2 | Not applicable  | Not applicable   |

## Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

## Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

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 .

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

## National Regulations

**UK** - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

## WGK Classification

See table for values

| Component          | Germany - Water Classification (AwSV) | Germany - TA-Luft Class                              |
|--------------------|---------------------------------------|--|
| Methylene chloride | WGK2                                  | Class I : 20 mg/m <sup>3</sup> (Massenkonzentration) |

| Component          | France - INRS (Tables of occupational diseases)      |
|--------------------|--|
| Methylene chloride | Tableaux des maladies professionnelles (TMP) - RG 12 |

| Component                               | Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81) | Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC) | Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure |
|---|--|---|---|
| Methylene chloride<br>75-09-2 ( >99.5 ) | Persistent Organic Pollutants (POPs)<br>Prohibited and Restricted Substances                                   | Group I   |   |

## 15.2. Chemical safety assessment

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A Chemical Safety Assessment/Report (CSA/CSR) has been conducted

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness  
H351 - Suspected of causing cancer

### 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

**DNEL** - Derived No Effect Level

**RPE** - Respiratory Protective Equipment

**LC50** - Lethal Concentration 50%

**NOEC** - No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer  
Predicted No Effect Concentration (PNEC)

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50%

**POW** - Partition coefficient Octanol:Water

**vPvB** - very Persistent, very Bioaccumulative

**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

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

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

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

**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)

### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Chemical incident response training.

**Creation Date**

27-Jan-2010

**Revision Date**

02-May-2025

**Revision Summary**

SDS sections updated, 2, 3, 6, 8, 15.

**This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.**

### **Disclaimer**

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# **SAFETY DATA SHEET**

Dichloromethane

Revision Date 02-May-2025

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**End of Safety Data Sheet**