

according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended

Creation Date 27-Jan-2010 Revision Date 06-Feb-2024 Revision Number 14

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

### 1.1. Product identifier

Product Description: <u>Dichloromethane</u>

Cat No.: 348460000; 348460010; 348460025; 348461000; 348465000

Synonyms Dichloromethane; DCM

 Index No
 602-004-00-3

 CAS No
 75-09-2

 EC No
 200-838-9

 Molecular Formula
 C H2 Cl2

REACH registration number 01-2119480404-41

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

Recommended Use Laboratory chemicals.

Sector of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

Product category PC21 - Laboratory chemicals

Process categories PROC15 - Use as a laboratory reagent

Environmental release category ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)

Uses advised against 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 Pharmaceuticalaan 3a, 2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

### **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1. Classification of the substance or mixture

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

ACR34846

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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

### **Precautionary Statements**

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

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

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

#### 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

Toxic to terrestrial vertebrates

Contains a known or suspected endocrine disruptor

Contains a substance on the National Authorities Endocrine Disruptor Lists

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

### 3.1. Substances

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

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|  | Eve Irrit, 2 (H319)                     |
|--|---|
|  | ) · · · · · · · · · · · · · · · · · · · |
|  | STOT SE 3 (H336)                        |
|  | 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** Treat symptomatically. Symptoms may be delayed.

### **SECTION 5: FIREFIGHTING MEASURES**

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), 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**

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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

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

#### 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 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

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| Component          | The United Kingdom                 | European Union                      | Ireland                            |
|--------------------|------------------------------------|-------------------------------------|------------------------------------|
| Methylene chloride | STEL: 200 ppm 15 min               | TWA: 353 mg/m <sup>3</sup> (8h)     | TWA: 100 ppm 8 hr.                 |
|                    | STEL: 706 mg/m <sup>3</sup> 15 min | TWA: 100 ppm (8h)                   | TWA: 353 mg/m <sup>3</sup> 8 hr.   |
|                    | TWA: 353 mg/m <sup>3</sup> 8 hr    | STEL: 706 mg/m <sup>3</sup> (15min) | STEL: 200 ppm 15 min               |
|                    | TWA: 100 ppm 8 hr                  | STEL: 200 ppm (15min)               | STEL: 706 mg/m <sup>3</sup> 15 min |
|                    | Skin                               | Skin                                | 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 |                              |                                 |                                | DNEL = 12mg/kg                    |
| 75-09-2 ( >99.5 )  |                              |                                 |                                | 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       | Water Intermittent | Microorganisms in | Soil (Agriculture) |
|---|--------------------|-----------------|-------------------|--------------------|-------------------|--------------------|
|   |                    |                 | sediment          |                    | sewage treatment  | _                  |
| Γ | Methylene chloride | PNEC = 130µg/L  | PNEC = 163µg/kg   | PNEC = 0.27mg/L    | PNEC = 26mg/L     | PNEC = 173µg/kg    |
|   | 75-09-2 ( >99.5 )  | PNEC = 0.31mg/L | sediment dw       |                    |                   | soil dw            |
|   |                    |                 | PNEC = 2.57 mg/kg |                    |                   | PNEC = 0.33mg/kg   |
| L |                    |                 | sediment dw       |                    |                   | soil dw            |

| Component                               | Marine water                       | Marine water sediment | Marine water intermittent | Food chain | Air |
|---|------------------------------------|-----------------------|---------------------------|------------|-----|
| Methylene chloride<br>75-09-2 ( >99.5 ) | PNEC = 130µg/L<br>PNEC = 0.031mg/L |                       | 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. 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)      | See manufacturers | -               |             | (minimum requirement) |

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recommendations EN 374

**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.

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

and maintained properly

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

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

Method - No information available

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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

Physical State Liquid

Appearance Colorless Odor sweet

Odor Threshold

Melting Point/Range
Softening Point

Boiling Point/Range
Flammability (liquid)

No data available
39 °C / 102.2 °F
No data available
No data available

Flammability (solid,gas) Not applicable Liquid

Explosion Limits

Lower 13 vol%
Upper 22 vol%

Flash Point No information available

Autoignition Temperature

Decomposition Temperature

pH

Viscosity

556 °C / 1032.8 °F

No data available

No information available

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 log Pow Methylene chloride 1.25

Vapor Pressure 350 mbar @ 20°C

Density / Specific Gravity 1.33

Bulk DensityNot applicableLiquidVapor Density2.93(Air = 1.0)

Particle characteristics Not applicable (liquid)

### 9.2. Other information

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Molecular FormulaC H2 Cl2Molecular Weight84.93

### **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
Hazardous Polymerization does not occur.
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 (CO2). Phosgene. Hydrogen chloride gas.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

### 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     |
| ·                  |                    |                      | 76000 mg/m³ ( 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 |

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

Category 3 (h) STOT-single exposure;

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.

delayed

Symptoms / effects, both acute and 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 properties for human health

Contains a substance on the National Authorities Endocrine Disruptor Lists

### **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1. Toxicity

**Ecotoxicity effects** 

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

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

### 12.2. Persistence and degradability

Persistence is unlikely, based on information available. **Persistence** 

#### Bioaccumulation is unlikely 12.3. Bioaccumulative potential

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

#### The product contains volatile organic compounds (VOC) which will evaporate easily from all 12.4. Mobility in soil

surfaces Will likely be mobile in the environment due to its volatility. Disperses rapidly in

### 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

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properties

This product does not contain any known or suspected endocrine disruptors **Endocrine Disruptor Information** 

12.7. Other adverse effects

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

### **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods

Waste from Residues/Unused Waste is classified as hazardous. Dispose of in accordance with the European Directives **Products** 

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.

### **SECTION 14: TRANSPORT INFORMATION**

### IMDG/IMO

UN1593 14.1. UN number

Dichloromethane 14.2. UN proper shipping name

14.3. Transport hazard class(es) 6.1 Ш 14.4. Packing group

ADR

UN1593 14.1. UN number

Dichloromethane 14.2. UN proper shipping name

14.3. Transport hazard class(es) 6.1 Ш 14.4. Packing group

**IATA** 

UN1593 14.1. UN number

Dichloromethane 14.2. UN proper shipping name

14.3. Transport hazard class(es) 6.1 Ш 14.4. Packing group

No hazards identified 14.5. Environmental hazards

14.6. Special precautions for user No special precautions required.

14.7. Maritime transport in bulk Not applicable, packaged goods according to IMO instruments

### **SECTION 15: REGULATORY INFORMATION**

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#### **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 | -      | ı   | X     | X    | KE-23893 | Χ    | X    |

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

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) -<br>Annex XIV - Substances<br>Subject to Authorization | REACH (1907/2006) -<br>Annex XVII - Restrictions<br>on Certain Dangerous<br>Substances  | REACH Regulation (EC<br>1907/2006) article 59 -<br>Candidate List of<br>Substances of Very High<br>Concern (SVHC) |
|--------------------|---------|---|---|---|
| Methylene chloride | 75-09-2 | -   | Use restricted. See item 59. (see link for restriction details) Use restricted. See item 75. (see link for restriction details) | -   |

#### **REACH links**

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

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

| ſ | Component          | CAS No  | Seveso III Directive (2012/18/EC) - Seveso III Directive (2012/18 |   |
|---|--------------------|---------|---|---|
|   | · ·                |         | Qualifying Quantities for Major Accident                          | Qualifying Quantities for Safety Report |
|   |                    |         | Notification  | Requirements                            |
| Ī | 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

| L | Component          | Germany - Water Classification (AwSV) | Germany - TA-Luft Class                 |
|---|--------------------|---------------------------------------|---|
|   | Methylene chloride | WGK2                                  | Class I: 20 mg/m³ (Massenkonzentration) |

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

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

#### 15.2. Chemical safety assessment

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

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

Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic

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

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

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

### **Training Advice**

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

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.

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Creation Date27-Jan-2010Revision Date06-Feb-2024Revision SummaryNot applicable.

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

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of Safety Data Sheet**