

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

### 1.1. Product identifier

**Product Description:** Iodine monochloride, 1M solution in dichloromethane  
**Cat No. :** H31938

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

**Recommended Use** Laboratory chemicals.  
**Uses advised against** No Information available

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

**Company**  
Avocado Research Chemicals Ltd.  
(Part of Thermo Fisher Scientific)  
Shore Road, Heysham  
Lancashire, LA3 2XY,  
United Kingdom  
Office Tel: +44 (0) 1524 850506  
Office Fax: +44 (0) 1524 850608

**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

**Poison Centre - Emergency information services**  
**Ireland** : National Poisons Information Centre (NPIC) -  
**01 809 2166** (8am-10pm, 7 days a week)  
**Malta** : +356 2395 2000  
**Cyprus** : +357 2240 5611

## 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

##### Physical hazards

Based on available data, the classification criteria are not met

##### Health hazards

Acute oral toxicity

Category 2 (H300)

# SAFETY DATA SHEET

Iodine monochloride, 1M solution in dichloromethane

Revision Date 30-Nov-2024

Skin Corrosion/Irritation  
Serious Eye Damage/Eye Irritation  
Carcinogenicity  
Specific target organ toxicity - (single exposure)

Category 1 A (H314)  
Category 1 (H318)  
Category 2 (H351)  
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

Danger

## **Hazard Statements**

H300 - Fatal if swallowed  
H314 - Causes severe skin burns and eye damage  
H336 - May cause drowsiness or dizziness  
H351 - Suspected of causing cancer

## **Precautionary Statements**

P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor/physician

## **2.3. Other hazards**

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**

### **3.2. Mixtures**

| 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 | 88.5     | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 (H336)<br>Carc. 2 (H351)       |
| Iodine monochloride | 7790-99-0 | EEC No. 232-236-7 | 11.5     | Acute Tox. 2 (H300)   |

# SAFETY DATA SHEET

Iodine monochloride, 1M solution in dichloromethane

Revision Date 30-Nov-2024

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  | Acute Tox. 3 (H311)<br>Skin Corr. 1A (H314)<br>Eye Dam. 1 (H318)<br>STOT SE 3 (H335) |
|--|--|--|--|--|

Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

|   |  |
|---|--|
| <b>General Advice</b>                     | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.  |
| <b>Eye Contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.   |
| <b>Skin Contact</b>                       | Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.  |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Call a physician or poison control center immediately.   |
| <b>Inhalation</b>                         | If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh air. Immediate medical attention is required. |
| <b>Self-Protection of the First Aider</b> | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.   |

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

Causes burns by all exposure routes. Causes central nervous system depression: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

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

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

CO<sub>2</sub>, dry chemical, dry sand, 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. The product causes burns of eyes, skin and mucous membranes.

# SAFETY DATA SHEET

Iodine monochloride, 1M solution in dichloromethane

Revision Date 30-Nov-2024

## Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Hydrogen iodide, Thermal decomposition can lead to release of irritating gases and vapors, 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. Thermal decomposition can lead to release of irritating gases and vapors.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### 6.2. Environmental precautions

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

### 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. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.

### 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. Corrosives area. Store under an inert atmosphere. Protect from direct sunlight.

Technical Rules for Hazardous Substances (TRGS) 510  
Storage Class (LGK) (Germany)

Class 6.1A

### 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# SAFETY DATA SHEET

Iodine monochloride, 1M solution in dichloromethane

Revision Date 30-Nov-2024

## 8.1. Control parameters

### Exposure limits

List source(s): **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 **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

| 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 ( 88.5 ) |                              |                                 |                                | 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 ( 88.5 ) |                                  | DMEL = 132.14mg/m <sup>3</sup>      |                                    | DNEL = 176mg/m <sup>3</sup>           |

### 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 ( 88.5 ) | 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 sediment                                       | Marine water intermittent | Food chain | Air |
|--|------------------------------------|---|---------------------------|------------|-----|
| Methylene chloride<br>75-09-2 ( 88.5 ) | PNEC = 130µg/L<br>PNEC = 0.031mg/L | PNEC = 163µg/kg sediment dw<br>PNEC = 0.26mg/kg 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. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or

# SAFETY DATA SHEET

Iodine monochloride, 1M solution in dichloromethane

Revision Date 30-Nov-2024

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        |
|----------------|-----------------------------------|-----------------|-------------|-----------------------|
| Butyl rubber   | See manufacturers recommendations | -               | EN 374      | (minimum requirement) |

**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:** Particulates filter conforming to EN 143 or Acid gases filter Type E Yellow conforming to EN14387

**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

|                                  |                          |  |
|----------------------------------|--------------------------|--|
| <b>Physical State</b>            | Liquid                   |  |
| <b>Appearance</b>                | Orange; Red; Brown       |  |
| <b>Odor</b>                      | No information available |  |
| <b>Odor Threshold</b>            | No data available        |  |
| <b>Melting Point/Range</b>       | No data available        |  |
| <b>Softening Point</b>           | No data available        |  |
| <b>Boiling Point/Range</b>       | No information available |  |
| <b>Flammability (liquid)</b>     | No data available        |  |
| <b>Flammability (solid,gas)</b>  | Not applicable           | Liquid                                   |
| <b>Explosion Limits</b>          | No data available        |  |
| <b>Flash Point</b>               | No information available | <b>Method -</b> No information available |
| <b>Autoignition Temperature</b>  | No data available        |  |
| <b>Decomposition Temperature</b> | No data available        |  |
| <b>pH</b>                        | No information available |  |
| <b>Viscosity</b>                 | No data available        |  |
| <b>Water Solubility</b>          | Insoluble                |  |

# SAFETY DATA SHEET

Iodine monochloride, 1M solution in dichloromethane

Revision Date 30-Nov-2024

|   |                          |             |
|---|--------------------------|-------------|
| Solubility in other solvents            | No information available |             |
| Partition Coefficient (n-octanol/water) |                          |             |
| Component                               | log Pow                  |             |
| Methylene chloride                      | 1.25                     |             |
| Vapor Pressure                          | No data available        |             |
| Density / Specific Gravity              | 1.420                    |             |
| Bulk Density                            | Not applicable           | Liquid      |
| Vapor Density                           | No data available        | (Air = 1.0) |
| Particle characteristics                | Not applicable (liquid)  |             |

## 9.2. Other information

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None known, based on information available

### 10.2. Chemical stability

Stable under normal conditions. Air sensitive. Light sensitive.

### 10.3. Possibility of hazardous reactions

Hazardous Polymerization  
Hazardous Reactions

Hazardous polymerization does not occur.  
None under normal processing.

### 10.4. Conditions to avoid

Incompatible products. Excess heat. Exposure to light. Exposure to air.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen iodide. Thermal decomposition can lead to release of irritating gases and vapors. 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

Category 2

Dermal

Based on available data, the classification criteria are not met

Inhalation

Based on available data, the classification criteria are not met

#### Toxicology data for the components

| 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 1 A

# SAFETY DATA SHEET

Iodine monochloride, 1M solution in dichloromethane

Revision Date 30-Nov-2024

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

Respiratory No data available  
Skin No data available

(e) germ cell mutagenicity; No data available

(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; No data available

(h) STOT-single exposure; Category 3

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

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Other Adverse Effects The toxicological properties have not been fully investigated.

Symptoms / effects, both acute and delayed Causes central nervous system depression. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

## 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 Do not empty into drains. .

| 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



# SAFETY DATA SHEET

Iodine monochloride, 1M solution in dichloromethane

Revision Date 30-Nov-2024

**Persistence** Persistence is unlikely.

**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 is insoluble and sinks in water Spillage unlikely to penetrate soil . Is not likely mobile in the environment due its low water solubility.

**12.5. Results of PBT and vPvB assessment** No data available for assessment.

**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. Do not flush to sewer. Large amounts will affect pH and harm aquatic organisms.

## SECTION 14: TRANSPORT INFORMATION

**IMDG/IMO**

**14.1. UN number** UN2922  
**14.2. UN proper shipping name** Corrosive liquid, toxic, n.o.s.  
**Technical Shipping Name** Iodine monochloride  
**14.3. Transport hazard class(es)** 8  
**Subsidiary Hazard Class** 6.1  
**14.4. Packing group** II

**ADR**

**14.1. UN number** UN2922  
**14.2. UN proper shipping name** Corrosive liquid, toxic, n.o.s.

# SAFETY DATA SHEET

Iodine monochloride, 1M solution in dichloromethane

Revision Date 30-Nov-2024

|                                  |                     |
|----------------------------------|---------------------|
| Technical Shipping Name          | Iodine monochloride |
| 14.3. Transport hazard class(es) | 8                   |
| Subsidiary Hazard Class          | 6.1                 |
| 14.4. Packing group              | II                  |

## IATA

|                                  |                                 |
|----------------------------------|---------------------------------|
| 14.1. UN number                  | UN2922                          |
| 14.2. UN proper shipping name    | Corrosive liquid, toxic, n.o.s. |
| Technical Shipping Name          | Iodine monochloride             |
| 14.3. Transport hazard class(es) | 8                               |
| Subsidiary Hazard Class          | 6.1                             |
| 14.4. Packing group              | II                              |

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    |
| Iodine monochloride | 7790-99-0 | 232-236-7 | -      | -   | X     | X    | KE-21028 | 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     |
| Iodine monochloride | 7790-99-0 | 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) |
|---------------------|-----------|---|--|---|
| 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) | -   |
| Iodine monochloride | 7790-99-0 | -   | -  | -   |

#### REACH links

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

# SAFETY DATA SHEET

Iodine monochloride, 1M solution in dichloromethane

Revision Date 30-Nov-2024

## 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   |
| Iodine monochloride | 7790-99-0 | 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

Water endangering class = 2 (self classification)

| 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 ( 88.5 )    | Persistent Organic Pollutants (POPs)<br>Prohibited and Restricted Substances                                   | Group I   |   |
| Iodine monochloride<br>7790-99-0 ( 11.5 ) | Prohibited and Restricted Substances   |   |   |

## 15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

## SECTION 16: OTHER INFORMATION

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

H300 - Fatal if swallowed

H314 - Causes severe skin burns and eye damage

ALFAAH31938

# SAFETY DATA SHEET

Iodine monochloride, 1M solution in dichloromethane

Revision Date 30-Nov-2024

H318 - Causes serious eye damage  
H336 - May cause drowsiness or dizziness  
H351 - Suspected of causing cancer  
H311 - Toxic in contact with skin  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation

## 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/MDG** - 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, Chemadvisor - 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)

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

**Physical hazards** On basis of test data

**Health Hazards** Calculation method

**Environmental hazards** Calculation method

### 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.

**Prepared By** Health, Safety and Environmental Department

**Creation Date** 22-Oct-2009

**Revision Date** 30-Nov-2024

**Revision Summary** Not 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,

# **SAFETY DATA SHEET**

Iodine monochloride, 1M solution in dichloromethane

Revision Date 30-Nov-2024

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transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**