# SLS Select Education - Safety Data Sheet CHE5580SE

**(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)**

Revision: 1.1 Revision date: 16 April 2021
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## Section 1. Identification

**1.1 Product Identifier** CHE5580SE

Product Name DICHLOROMETHANE pure 2.5L.

CAS Number 75-09-2
REACH Registration No 01-21194840404-41-XXXX

Molecular Formula $CH_2Cl_2$ =84.93

**1.2 Relevent identified uses of the substance or mixure & uses advised against**

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

**1.3 Supplier** SLS Select Education

Unit 6, Foresters Avenue
Fairham Business Park
Fairham
Nottingham
NG11 2AF
UNITED KINGDOM

Phone 0115 9821111
Fax 0115 9825275
Email sales@scientific-labs.com

**1.4 Emergency Telephone** (08:00-17:00) 0115 9821111
(24hr) 112
(Have this document to hand)

## Section 2. Hazards Identification

**2.1 Classification of the substance or mixture**

**Classification according to regulation 1272/2008/EC**

| | |
|---|---|
| Skin corrosion/irritation, category 2 | H315: Causes skin irritation. |
| Serious eye damage/irritation, category 2 | H319: Causes serious eye irritation. |
| Carcinogenicity, category 2 | H351: Suspected of causing cancer. |
| Spec target organ tox - single, category 3 | H336: May cause drowsiness or dizziness. |

**2.2 Label elements**

**Labelling according to regulation 1272/2008/EC**

Signal word Warning

Hazard Pictograms

| | |
|---|---|
| Hazard Statements | Suspected of causing cancer. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. |
| Precautionary Statements | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/attention. Store locked up. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. |

## Section 3. Composition

### 3.1 Substances

| Component | CAS No. | EEC No. | REACH No. | Conc w/w | CLP Classification (1272/2008/CE) |
|---|---|---|---|---|---|
| Dichloromethane | 75-09-2 | 200-838-9 | 01-21194840404-41-XXXX | >99% | Skin Irrit. 2,Eye Irrit. 2,Carc. 2,STOT SE 3 (D) |

## Section 4. First Aid

### 4.1 Description of first aid measures

| | |
|---|---|
| Eyes | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION. |
| Skin | Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-use. |
| Inhalation | Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY. |
| Ingestion | If conscious give plenty of water to drink. Induce vomiting. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY. |
| Personal protection for first aiders | Wear protective gloves / eye protection. |

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

Inhalation of vapours may cause headache, nausea or vomiting, dizziness, drowsiness

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

If symptoms of vapour inhalation occur OBTAIN IMMEDIATE MEDICAL ATTENTION.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

| | |
|---|---|
| Extinguishing Media | Consider what other flammable materials are present and act accordingly. Use water spray to keep fire exposed containers cool. |
| Unsuitable Media | Do not use water jet. |

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

| | |
|---|---|
| Hazards | May evolve toxic fumes if involved in a fire. Vapour-air mixtures are explosive. |

### 5.3 Advice for firefighters

| | |
|---|---|
| Advice for firefighters | Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. |

## Section 6. Accidental Release Measures

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

| | |
|---|---|
| Personal Protection | Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so. Beware : vapour is heavier than air and will tend to accumulate at low spots. |

### 6.2 Environmental precautions

| | |
|---|---|
| Enviromental | Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs. |

**6.3 Methods and material for containment and cleaning up**

| | |
|---|---|
| Major Spillage | Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with detergent and copious amounts of water. |
| Minor Spillage | Contain and absorb on inert material. Transfer absorbent to container for removal. Allow solvent to evaporate in remote area, then dispose of absorbent as solid chemical waste. Wash area down with detergent and copious amounts of water. |

**6.4 Reference to other sections**

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

**7.2 Conditions for safe storage, including any incompatibilities**

Well ventilated, cool, dry storage . Protect from direct sunlight. Protect against moisture to prevent decomposition and corrosion.

**7.3 Specific end use(s)**

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

**8.1 Control parameters**

| Component | CAS No | Concentration | Workplace Exposure Limits | | | |
|---|---|---|---|---|---|---|
| | | | Long Term (8hr TWA) | | Short Term 15min period) | |
| Dichloromethane | 75-09-2 | >99% | 100.0 ppm | 350.0 mg/m-3 | 200.0 ppm | 706.0 mg/m-3 |

| | |
|---|---|
| Exposure data source(s) | IOELV: Indicative Occupational Exposure Limit Value. |

**8.2 Exposure controls**

| | |
|---|---|
| Respiratory Protection | Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus. |
| Hand Protection | Use solvent resistant gloves. |
| Eye Protection | Use tightly fitting chemical splash proof glasses or goggles. |
| Skin Protection | Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn. |
| Special Hazards | No special precautions required. |

## Section 9. Physical & Chemical Properties

**9.1 Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance | Clear colourless liquid. |
| Odour | Fresh and characteristic. |
| pH | Not applicable |
| Boiling Point | 39.8°C |
| Melting Point | -96.7°C |
| Flash Point | Not applicable |
| Upper Flammable Limit | 22% |
| Lower Flammable Limit | 13% |
| Auto Ignition | 556°C |
| Explosive Properties | Moderate/severe in confined spaces. |
| Oxidising Properties | No. |
| Vapour Pressure | 380mmHg @ 22°C |

| | |
|---|---|
| Relative Density | 1.3250 |
| Water Solubility | Insoluble in water. |

**9.2 Other information**

No data available.

## Section 10. Stability & Reactivity

| | | |
|---|---|---|
| **10.1** | Reactivity | No data available. |
| **10.2** | Chemical Stability | Stable under normal conditions |
| **10.3** | Possibility of hazardous reactions | No data available. |
| **10.4** | Conditions to Avoid | Hot surfaces and naked flames. |
| **10.5** | Incompatable Materials | Strong oxidising agents. Lithium, sodium, potassium and hot aluminium. Nitric acid. |
| **10.6** | Hazardous Decomposition Products | Toxic phosgene fumes. |

## Section 11. Toxicological Information

**11.1 Information on toxicological effects**

| | |
|---|---|
| Eyes | Causes serious eye irritation. |
| Skin | Both the vapour and liquid are, irritating to the skin. Repeated exposure may cause dermatitis. |
| LD50 Skin | >2000mg/kg Rat |
| Ingestion | Low order of acute toxicity. |
| LD50 Oral | 2136mg/kg Rat |
| Inhalation | Exposure to vapour concentrations above the occupational exposure limits may cause narcosis, with symptoms as for 'drunkenness'. High concentrations of vapour may cause breathing problems, leading to bronchitis, pulmonary oedema and eventually unconsciousness. |
| LD50 Inhalation | 76,000mg/m3 Rat (4 hours) |
| TCLo | 5000ppm |
| Carcinogenicity | Suspected of causing cancer. |
| Mutagenicity | May be a mutagen. |
| Reproductive Effects | A greater risk of male sterility has been found in male workers. Increased rates of spontaneous abortions have been found in female workers. |

## Section 12. Ecological

| | | |
|---|---|---|
| **12.1** | Toxicity | Does not persist in the atmosphere. Slowly biodegradable in water and soil. Harmful to aquatic organisms. |
| | LC50 Algal | >660mg/l Algae (96 hours) |
| | LC50 Crustacea | Not available |
| | LC50 Fish | 193mg/l Fathead minnow (Pimephales promelas) (96 hours) |
| **12.2** | Persistence and degradability | No data available. |
| **12.3** | Bioaccumulative potential | No data available. |
| **12.4** | Mobility in soil | No data available. |
| **12.5** | Results of PBT & vPvB assessment | Assessment not required. |
| **12.6** | Other adverse effects | None known at present. |

## Section 13. Disposal Considerations

**13.1 Waste treatment methods**

| | |
|---|---|
| Disposal Methods | Dispose of in a licensed incinerator for organic solvents. |
| Contaminated Packaging | Use a licensed waste disposer. |

## Section 14. Transport Information

| | | |
|---|---|---|
| **14.1** | **UN Number** | 1593 |
| **14.2** | **Proper Shipping Name** | Dichloromethane |
| **14.3** | **Transport classes** | |
| | UN classification | 6.1 |
| | Subsidiary hazard(s) | None |
| | Transport category | 2 |
| | ADR Hazard ID | 60 |
| | Tunnel Restriction Code | E |
| **14.4** | **Packing Group** | III |
| **14.5** | **Environment hazards** | See section 12. |
| **14.6** | **Special precautions for user** | No special precautions required. |
| **14.7** | **Transport in bulk** | Not transported in bulk. |

## Section 15. Regulatory Information

**15.1 Safety, health and environment regulations specific for subtance/mixture.**

**Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)**

| | |
|---|---|
| Classification | Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2; Carcinogenicity, category 2; Spec target organ tox - single, category 3 |
| Signal word | Warning |
| Hazard Pictograms | |
| Hazard Statements | H351, H315, H319, H336<br>Suspected of causing cancer. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. |
| Precautionary Statements | P201, P202, P308+P313, P405, P302+P352, P305+P351+P338<br>Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/attention. Store locked up. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. |

**15.2 Chemical safety assessment**

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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