# SLS Select Education - Safety Data Sheet

CHE5682SE

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

Revision: 1.1 Revision date: 16 April 2021 Date printed: 25 January 2022

Section 1. Identification

1.1 Product Identifier CHE5682SE

Product Name iso-PENTANE 250ml.

CAS Number 78-78-4

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula  $C_{s H_1} = 72.15$ 

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

Se SLS Select education Wilford Industrial Estate

Ruddington Lane

Wilford Nottingham NG11 7EP

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

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(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

Flammable liquid, category 1 H224: Extremely flammable liquid and vapour. Spec target organ tox - single, category 3 H336: May cause drowsiness or dizziness.

Aspiration hazard, category 1 H304: May be fatal if swallowed and enters airways.

Hazard to aquatic environment, category 2

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







Extremely flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause drowsiness or Hazard Statements

dizziness. Toxic to aquatic life with long lasting effects.

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Avoid breathing dust / fume / gas / mist /

vapours / spray. Avoid release to the environment. IF SWALLOWED: Immediately call a POISON ČENTER or

doctor/physician. Do NOT induce vomiting.

Supplemental Hazard Information (EU)

Repeated exposure may cause skin dryness or cracking.

# **Section 3. Composition**

#### 3.1 Substances

| Component   | CAS No. | EEC No.   | REACH No. | Conc w/w | CLP Classification (1272/2008/CE)                        |
|-------------|---------|-----------|-----------|----------|--|
| iso-Pentane | 78-78-4 | 201-142-8 |           | >99%     | Flam. Liq. 1,STOT SE 3 (D),Asp. Tox. 1,Aquatic Chronic 2 |

# 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 Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. In

severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.

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.

If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen Ingestion

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 Wear protective gloves / eye protection.

aiders

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

No further relevant information available.

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

No further relevant information available.

# Section 5. Fire Fighting

## 5.1 Extinguishing media

Extinguishing Media Foam, dry powder, carbon dioxide or vaporising liquids. 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 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 Ensure no sources of ignition. 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

Environmental 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

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 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

All transfer systems should be earthed to prevent accumulation of static electricity. 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 sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents. Large quantities must be stored in accordance with the Petroleum Spirits Act.

#### 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) |  |
| iso-Pentane | 78-78-4 | >99%          | 600.0 ppm -               | 1800.0 ppm -             |  |

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

### 8.2 Exposure controls

maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.

Hand Protection Use solvent resistant gloves.

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 Characteristic.
pH Not applicable
Roiling Point 26°C

Boiling Point 26°C Melting Point 158°C

Flash Point -56°C (Closed cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition
7.6%
1.3%
420°C

Explosive Properties Severe in confined spaces.

Oxidising Properties No.

400mmHg @ 20°C Vapour Pressure

Relative Density 0.6250

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 No data available.

reactions

10.4 Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

10.5 Incompatable Materials Strong oxidising agents.

10.6 Hazardous Decomposition None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Products

# **Section 11. Toxicological Information**

#### 11.1 Information on toxicological effects

Eyes Both the vapour and liquid will, act as an eye irritant.

Skin The liquid is mildly irritating to the skin. Repeated or prolonged contact may defat the skin producing irritation

and dermatitis.

LD50 Skin Not available

Ingestion Ingestion will cause irritation of the throat with nausea and vomiting, unconsciousness may develop in extreme

cases.

LD50 Oral Not available

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes and

respiratory tract. High concentrations of vapour may cause narcosis. Symptoms include drowsiness, mental

confusion and unconsciousness.

LD50 Inhalation Not available **TCLo** Not available

Carcinogenicity No information is available. Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

# Section 12. Ecological

12.1 Toxicity Moderately toxic to mammals, fish and bacteria.

LC50 Algal Not available

LC50 Crustacea 2.3mg/l Daphnia magna (48 hours) LC50 Fish 12.18mg/l Fathead Minnow (96 hours)

12.2 Persistence and Material is readily bio-degradable in the environment. Passes BOD >60%.

degradability

12.3 Bioaccumulative potential No data available. 12.4 Mobility in soil No data available.

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. Do not dispose of as domestic waste. Never dispose of

into water courses or sewerage systems due to high risk of explosion.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.

## **Section 14. Transport Information**

14.1 UN Number 126514.2 Proper Shipping Name Pentanes

14.3 Transport classes

UN classification 3
Subsidiary hazard(s) None
Transport category 1
ADR Hazard ID 33
Tunnel Restriction Code D/E

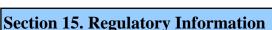
14.4 Packing Group I

**14.5 Environment hazards** See section 12.

**14.6 Special precautions for** No special precautions required.

user

**14.7 Transport in bulk** Not transported in bulk.



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

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

Classification Flammable liquid, category 1; Spec target organ tox - single, category 3; Aspiration hazard, category 1; Hazard to

aquatic environment, category 2

Signal word Danger

Hazard Pictograms







Hazard Statements H224, H304, H336, H411

Extremely flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause drowsiness or

dizziness. Toxic to aquatic life with long lasting effects.

Precautionary Statements P210, P261, P273, P301+P310, P331

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Avoid breathing dust / fume / gas / mist / vapours / spray. Avoid release to the environment. IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician. Do NOT induce vomiting.

Supplemental Hazard Information (EU)

EUH066

Repeated exposure may cause skin dryness or cracking.

#### 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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