

# MATERIAL SAFETY DATA SHEET (MSDS)

## **DIETHYL ETHER HPLC**

# 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : DIETHYL ETHER HPLC

S

**Product code** 

: SS0107902500

Identification of the product

: DIETHYL ETHER 98% for HPLC

CAS No: 60-29-7

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

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

**Company identification** 

**SUVCHEM** 

Chaitanya Tower, 2nd Floor, Office # 206,

Siddharth Nagar, S.V. Road,

Goregaon (West), Mumbai - 400062,

Maharashtra, India.

Contact: +91 22 28725393 / 94 / 95

Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

# 2. Hazards identification -DSD

## 2.1. Classification of the substance or mixture

## Classification EC 67/548 or EC 1999/45

: F+; R12 Classification

> R19 Xn; R22 R66 **R67**

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

**Health hazards** : Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 -

Warning (CLP: STOT SE 3) H336

Acute toxicity, Oral - Category 4 - Warning (CLP: Acute Tox. 4) H302

: Flammable liquids - Category 1 - Danger (CLP : Flam. Liq. 1) H224 Physical hazards

2.2. Label elements

Labelling EC 67/548 or EC 1999/45



# MATERIAL SAFETY DATA SHEET (MSDS)

## DIETHYL ETHER HPLC

# 2. Hazards identification -DSD (continued)

Symbol(s)





Symbol(s) : F+: Extremely flammable

Xn : Harmful

R Phrase(s) : R12 : Extremely flammable.

R19: May form explosive peroxides.

R22: Harmful if swallowed.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

S Phrase(s)

S16: Keep away from sources of ignition - No smoking.

S29: Do not empty into drains.

S33: Take precautionary measures against static discharges.

### <u>Labelling Regulation EC 1272/2008 (CLP)</u>

Hazard pictograms





Signal words : Danger

Hazard statements : H224 : Extremely flammable liquid and vapour.

H302 : Harmful if swallowed.

H336: May cause drowsiness or dizziness.

**Precautionary statements** 

• **Prevention** : P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical, ventilating, lighting, ..., equipment.

P210: Keep away from heat, sparks, open flames or hot surfaces. - No smoking. P280: Wear protective gloves, protective clothing, eye protection, face protection.

P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P233: Keep container tightly closed. P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

• Response : P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel

unwell.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position

comfortable for breathing.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated

clothing. Rinse skin with water/shower.

P370+P378: In case of fire: Use for extinction.

• **Storage** : P403+P233: Store in well-ventilated place. Keep container tightly closed.

P403+P235: Store in well-ventilated place. Keep cool.

P405: Store locked up.

• Disposal considerations : P501: Dispose of this material and its container to hazardous or special waste

collection point, in accordance with local, regional, national and/or international

regulation.



# MATERIAL SAFETY DATA SHEET (MSDS)

## **DIETHYL ETHER HPLC**

# 2. Hazards identification -DSD (continued)

#### 2.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.

## 3. Composition/information on ingredients

Substance / Preparation : DIETHYL ETHER 98% for HPLC

CAS No :60-29-7 Substance.

Contains no other components or impurities which will influence the classification of the product.

## 4. First aid measures

### 4.1. Description of first aid measures

Inhalation : Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep

at rest in a position comfortable for breathing.

Skin contact : Wash with plenty of soap and water. Remove/Take off immediately all contaminated

clothing.

**Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or

redness persist.

Ingestion : Obtain emergency medical attention. Rinse mouth. Call a POISON CENTER or

doctor if you feel unwell. Do NOT induce vomiting.

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

Symptoms relating to use : Swallowing a small quantity of this material will result in serious health hazard.

May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

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

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show the label where possible).

## 5. Fire-fighting measures

# 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media**: Do not use a heavy water stream.

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

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



# MATERIAL SAFETY DATA SHEET (MSDS)

# **DIETHYL ETHER HPLC**

# 5. Fire-fighting measures (continued)

Flammable class : Extremely flammable liquid and vapour.

May form explosive peroxides.

Hazardous combustion products : Under fire conditions, hazardous fumes will be present. May form flammable/

explosive vapour-air mixture.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory

protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to

enter environment. DO NOT fight fire when fire reaches explosives. Evacuate area.

# 6. Accidental release measures

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

**For emergency responders** : Equip cleanup crew with proper protection.

Ventilate area.

Avoid breathing dust, fume, gas, mist, vapours, spray.

**Technical measures** : Use special care to avoid static electric charges.

Special precautions : Remove ignition sources. No naked lights. No smoking. Reacts vigorously with

strong oxidizers and acids.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters

sewers or public waters.

# 6.3. Methods and material for containment and cleaning up

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as

possible. Store away from other materials. Collect spillage.

# 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

## 7. Handling and storage

## 7.1. Precautions for safe handling

**Handling** : Handle empty containers with care because residual vapours are flammable. Do not

eat, drink or smoke when using this product. Wash thoroughly after handling. Take

precautionary measures against static discharge. Use only outdoors or in a well-ventilated area.



# MATERIAL SAFETY DATA SHEET (MSDS)

## DIETHYL ETHER HPLC

# 7. Handling and storage (continued)

**Technical protective measures**: Provide good ventilation in process area to prevent formation of vapour.

Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting, ..., equipment. Use only non-

sparking tools.

**Special precautions**: No naked lights. No smoking.

Avoid breathing dust, fume, gas, mist, vapours, spray.

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

**Storage** : Keep only in the original container in a cool, well ventilated place.

Keep in fireproof place. Ground/bond container and receiving equipment. Keep

container tightly closed.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

Oxidizing agent.

7.3. Specific end use(s)

Specific end use(s) : None.

## 8. Exposure controls/personal protection

#### 8.1. Exposure controls

**Personal protection** : Avoid all unnecessary exposure.

• Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection

equipment is recommended.

• Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.
 Others : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

### 9. Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid.

Colour: Clear ColorlessOdour: Sweet Etheral odourOdour threshold: No data available.pH value: No data available.

Melting point [°C] : -116 °C



# MATERIAL SAFETY DATA SHEET (MSDS)

## **DIETHYL ETHER HPLC**

## 9. Physical and chemical properties (continued)

Decomposition point [°C] : N/A
Critical temperature [°C] : N/A
Auto-ignition temperature [°C] : 1600C

Flammability (solid, gas) : Extremely flammable liquid and vapour.

Flammable.

Flash point [°C] : -40 °C

Boiling point [°C] : 34.6 °C

Initial boiling point [°C] : N/A

Final boiling point [°C] : N/A

Evaporation rate : 37,5

Vapour pressure [20°C] : 563 hPa at 20 °C

Vapour pressure mm/Hg : N/A
Vapour density : 2,6
Density [g/cm3] : 0,71
Relative density, gas (air=1) : N/A
Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : 65 g/l at 20 °C

Solubility in water : N/A

Log Pow octanol / water at 20°C : No data available.

Solubility : N/A Viscosity at 40°C [mm2/s] : N/A

9.2. Other information

Explosive properties : N/A

May form explosive peroxides.

Explosion limits - upper [%] : 48% Explosion limits - lower [%] : 1,80%

Oxidising properties : No data available.

# 10. Stability and reactivity

10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

**Chemical stability** : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

**Hazardous reactions** : Not established.



# MATERIAL SAFETY DATA SHEET (MSDS)

## DIETHYL ETHER HPLC

# 10. Stability and reactivity (continued)

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures. Sparks. Heat. Overheating.

Open flame. Heat. Sparks. Open flame. Direct sunlight. Overheating.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

Oxidizing agent.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

May release flammable gases.

## 11. Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity** 

Inhalation
 Based on available data, the classification criteria are not met.
 Dermal
 Based on available data, the classification criteria are not met.

• Ingestion : Harmful if swallowed.

Corrosion : Based on available data, the classification criteria are not met.

Irritation : Repeated exposure may cause skin dryness or cracking.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

## 12. Ecological information

**12.1. Toxicity** 

**Toxicity information** : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential



# MATERIAL SAFETY DATA SHEET (MSDS)

## DIETHYL ETHER HPLC

# 12. Ecological information (continued)

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

**Environmental precautions** : Avoid release to the environment.

# 13. Disposal considerations

## 13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with

local/national regulations.

Hazardous waste due to potential risk of explosion.

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Special precautions** : Handle empty containers with care because residual vapours are flammable.

## 14. Transport information

#### 14.1. Land transport (ADR-RID)

Proper shipping name : DIETHYL ETHER (ETHYL ETHER)

UN N° : 1155 H.I. nr : 33 ADR - Class : 3

**Labelling - Transport** : 3 : Flammable liquid.



ADR - Classification code : F1

ADR - Group : I

ADR - Packing instructions : P001

ADR - Limited Quantity : 0



# MATERIAL SAFETY DATA SHEET (MSDS)

## DIETHYL ETHER HPLC

# 14. Transport information (continued)

ADR - Tunnel code : D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.



# 14.2. Sea transport (IMDG) [English only]

Proper shipping name : DIETHYL ETHER (ETHYL ETHER)

UN N° : 1155

**IMO-IMDG - Class or division** : 3 : Flammable liquid.

IMO-IMDG - Packing group : I
IMO- IMDG - Packing instructions : P001
IMO-IMDG - Limited quantities : None
IMO-IMDG - Marine pollution : No
EMS-Nr : F-E S-D

## 14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : DIETHYL ETHER (ETHYL ETHER)

**UN N°** : 1155

IATA - Class or division : 3 : Flammable liquid.

IATA - Packing group : |

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing : 351

instruction

- Passenger and Cargo - Maximum : 1 L

**Quantity/Packing** 

IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 361 - Cargo only - Maximum Quantity/ : 30 L

**Packing** 

ERG-Nr : 3AH

## 15. Regulatory information

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

**Safety, health and environmental**: Ensure all national/local regulations are observed.

regulations/legislation specific for the

substance or mixture

**REACH Restrictions - Annex XVII**: The components of this product are not subject to restrictions.



# MATERIAL SAFETY DATA SHEET (MSDS)

# **DIETHYL ETHER HPLC**

In accordance with REACH Regulation (CE) No 1907/2006 and with CLP Regulation (CE) No 1272/2008

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