

# MATERIAL SAFETY DATA SHEET

Product Name: Diethyl ether

CAS No.: 60-29-7

Version: 0

## 1. Identification

**Product Code** : 90018, 90152, 90722, 90391  
**Company Name** : Advent Chembio Private Limited  
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## 2. Hazards Identification

### Hazard classification

Flammable liquids : Category 1  
 Acute toxicity, Oral : Category 4  
 Specific target organ toxicity - single exposure : Category 3

### Label elements

### Hazard symbol



### Signal word

### Hazard statement

### Precautionary statement

### Supplemental Hazard Statements

- : Danger
- : Extremely flammable liquid and vapour.
- : Harmful if swallowed.
- : May cause drowsiness or dizziness.
- : Keep away from heat/sparks/open flames/hot surfaces. - No smoking .Avoid breathing vapours.
- : May form explosive peroxides. Repeated exposure may cause skin dryness or cracking.

## 3. Composition/information on ingredients

Ingredient	CAS No
Diethyl ether	60-29-7

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## 4. First Aid Measures

### Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### Inhalation

: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### Skin contact

: Wash off with soap and plenty of water. Consult a physician.

#### Eye contact

: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### Swallowed

: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

#### Indication of any immediate medical attention and special treatment needed Treatment

: No data available

## 5. Fire fighting measures

### Extinguishing media

#### Suitable extinguishing media

: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

: Carbon oxides

#### Advice for firefighters

: Wear self contained breathing apparatus for fire fighting if necessary

#### Further information

: No data available

## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

### Environmental precautions

: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations

**MATERIAL SAFETY DATA SHEET****Product Name:** Diethyl ether**CAS No.:** 60-29-7**Version:** 0**Reference to other sections** : For disposal see section 13.**7. Handling and Storage**

- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Specific end use(s)** : No data available

**8. Exposure Controls Personal Protection****Control parameters****Components with workplace control parameters****Exposure controls**

- Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

- Eye/face protection** : Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin Protection Hand protection**

- : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**

- : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace..

**Respiratory protection**

- : Respiratory protection is required.

**9. Physical and Chemical Properties**

- Appearance** : Liquid.
- Odor** : No data available
- pH** : No data available
- Melting point/freezing point** : -116 °C
- Initial boiling point and boiling range** : 34.6 °C at 1.013 h Pa
- Flash Point** : -40 °C - closed cup
- Vapor pressure** : 189 h Pa at 0 °C  
389 h Pa at 10 °C  
563 h Pa at 20 °C

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**Vapor density** : 863 h Pa at 30 °C  
1.228 h Pa at 40 °C  
2.311 h Pa at 60 °C  
: 2,56 - (Air = 1.0)  
**Relative density** : 0.71 g/cm<sup>3</sup> at 20 °C  
**Solubility in water** : 65 g/l at 20 °C  
**Solubility (other)** : No data available  
**Formula** : C<sub>4</sub>H<sub>10</sub>O  
**Molecular Weight** : 74.12g/mol

**10. Stability and Reactivity**

**Reactivity** : No data available  
**Chemical stability** : Stable under recommended storage conditions.  
**Possibility of hazardous reactions** : No data available  
**Conditions to avoid** : Heat, flames and sparks. Extremes of temperature and direct sunlight.  
**Incompatible materials** : Oxidizing agents, Strong acids  
**Hazardous decomposition products** : No data available

**11. Toxicological Information****Information on toxicological effects**

**Acute toxicity** : LD50 Oral - rat - 1.215 mg/kg  
LC50 Inhalation - mouse - 30 min - 31000 ppm  
Remarks: Behavioral: Convulsions or effect on seizure threshold.  
LD50 Dermal - rabbit - > 14,2 g/kg  
**Skin corrosion/irritation** : No data available  
**Serious eye damage/eye irritation** : Mild eye irritation  
**Respiratory or skin sensitization** : No data available  
**Germ cell mutagenicity** : No data available  
**Carcinogenicity** : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
**Reproductive toxicity** : No data available  
**Specific target organ toxicity - single exposure** : May cause drowsiness or dizziness.  
**Specific target organ toxicity - repeated exposure** : No data available.  
**Aspiration hazard** : No data available  
**Signs and Symptoms of Exposure** : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly

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investigated.

**12. Ecological Information**

<b>Toxicity</b>	:	LC50 - Pimephales promelas (fathead minnow) - 2.560 mg/l - 96 h
<b>Persistence and degradability</b>	:	No data available.
<b>Bioaccumulative potential</b>	:	No data available.
<b>Mobility in soil</b>	:	No data available.
<b>Other adverse effects</b>	:	No data available.

**13. Disposal consideration**

<b>Disposal instructions</b>	:	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
<b>Contaminated packaging</b>	:	Dispose of as unused product.

**14. Transport Information**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>	1155	DIETHYL ETHER	3	I	NO
<b>IMDG</b>	1155	DIETHYL ETHER	3	I	NO
<b>IATA</b>	1155	DIETHYL ETHER	3	I	NO

**15. Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

**16. Other Information****Issue Date :**01/08/2014**Version : 0**

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