MATERIAL SAFETY DATA SHEET - Ethylene Glycol Mono ethyl Ether Acetate

1. Identification

Product Name: Ethylene Glycol Mono ethyl Ether Acetate
Cat No.: E181-4
Synonyms: Oxitol acetate; 2-Ethoxyethyl acetate; Cellosolve acetate
Recommended Use: Laboratory chemicals.

Uses advised against: No Information available

Details of the supplier of the safety data sheet
COMPANY IDENTIFICATION

Supplier: Pon Pure Chemicals Group
CHENNAI, TAMILNADU, INDIA

24 Hour Health Emergency
(91) 8939878447
(91) 9444038694

Transportation Emergency Phone
(91) 8939768680

Company Name | Place | EMERGENCY TELEPHONE NUMBER
--- | --- | ---
Pon Pure Chemicals Group | India | Day Emergency – 044-26161803-26161809

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

- Flammable liquids: Category 3
- Acute oral toxicity: Category 4
- Acute dermal toxicity: Category 4
- Acute Inhalation Toxicity - Vapors: Category 4
- Reproductive Toxicity: Category 1B

Label Elements

Signal Word
Danger
Hazard Statements
Flammable liquid and vapor
Harmful if swallowed
Harmful in contact with skin
Harmful if inhaled
May damage fertility or the unborn child

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area
Wear protective gloves/eye protection/face protection. Ground/bond container and receiving equipment
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed
Take precautionary measures against static discharge
Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Response
IF exposed or concerned: Get medical attention/advice
Inhalation
Call a POISON CENTER or doctor/physician if you feel unwell.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN: Wash with plenty of soap and water
Call a POISON CENTER or doctor/physician if you feel unwell. Take off contaminated clothing and wash before reuse

Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth

Fire
Fight fire with normal precautions from a reasonable distance. Evacuate area.

Storage
Store locked up
Store in a well-ventilated place.
Keep cool Store in a closed container

**Disposal**
Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**
None identified

**Other hazards**
WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

### 3. Composition / information on ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethoxyethyl acetate</td>
<td>111-15-9</td>
<td>100</td>
</tr>
</tbody>
</table>

### 4. First-aid measures

**Eye Contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

**Skin Contact**
Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

**Inhalation**
Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

**Ingestion**
Do not induce vomiting. Obtain medical attention.

**Most important symptoms/effects**
Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

**Notes to Physician**
Treat symptomatically

### 5. Fire-fighting measures

**Unsuitable Extinguishing Media**
No information available

**Flash Point**
51 °C

**Method -**
No information available

**Autoignition Temperature**
380 °C

**Explosion Limits**

<table>
<thead>
<tr>
<th>Type</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper</td>
<td>10.10%</td>
</tr>
<tr>
<td>Lower</td>
<td>1.70%</td>
</tr>
</tbody>
</table>
Sensitivity to Mechanical Impact  No information available
Sensitivity to Static Discharge  No information available

Specific Hazards Arising from the Chemical
Flammable. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
None known

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>N/A</td>
</tr>
</tbody>
</table>

6. Accidental release measures

Personal Precautions
Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Take precautionary measures against static discharges. Remove all sources of ignition.

Environmental Precautions
See Section 12 for additional ecological information.

Methods for Containment and Clean
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, Up sawdust). Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling
Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Storage
Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Flammables area.
8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethoxyethyl acetate</td>
<td>TWA: 5 ppm</td>
<td>(Vacated) TWA: 100 ppm</td>
<td>IDLH: 500 ppm</td>
</tr>
<tr>
<td></td>
<td>Skin</td>
<td>TWA: 540 mg/m³</td>
<td>TWA: 0.5 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 100 ppm</td>
<td>TWA: 2.7 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 540 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Quebec</th>
<th>Mexico OEL (TWA)</th>
<th>Ontario TWAEV</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethoxyethyl acetate</td>
<td>TWA: 5 ppm</td>
<td>TWA: 50 ppm</td>
<td>TWA: 5 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 27 mg/m³</td>
<td>TWA: 270 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin</td>
<td>STEL: 100 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 540 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>aromatic</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>-61 °C</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>156 °C @ 760 mmHg</td>
</tr>
<tr>
<td>Flash Point</td>
<td>51 °C</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>0.2</td>
</tr>
<tr>
<td>Flammability (solid,gas)</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability or explosive limits</td>
<td></td>
</tr>
<tr>
<td>Upper</td>
<td>10.10%</td>
</tr>
<tr>
<td>Lower</td>
<td>1.70%</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>2.34 mmHg @ 25 °C</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>4.72 (Air = 1.0)</td>
</tr>
<tr>
<td>Relative Density</td>
<td>.9750</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition coefficient; n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>380 °C</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>C6H12O3</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>132.16</td>
</tr>
</tbody>
</table>

### 10. Stability and reactivity

**Reactive Hazard** None known, based on information available  
**Stability** Stable under normal conditions.  
**Conditions to Avoid** Incompatible products.  
**Incompatible Materials** Strong oxidizing agents  
**Hazardous Decomposition Products** None under normal use conditions  
**Hazardous Polymerization** Hazardous polymerization does not occur.  
**Hazardous Reactions** None under normal processing.
11. Toxicological information

Acute Toxicity
Product Information
No acute toxicity information is available for this product

Component Information

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethoxyethyl acetate</td>
<td>2700 mg/kg (Rat)</td>
<td>10000 mg/kg (Rabbit)</td>
<td>12.1 mg/L (Rat) 8 h</td>
</tr>
</tbody>
</table>

Toxicologically Synergistic Products
No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation
No information available

Sensitization
No information available

Carcinogenicity
The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>IARC</th>
<th>NTP</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethoxyethyl acetate</td>
<td>111-15-9</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Mutagenic Effects
No information available

Reproductive Effects
Experiments have shown reproductive toxicity effects on laboratory animals.

Developmental Effects
No information available.

Teratogenicity
No information available.

STOT - single exposure
None known

STOT - repeated exposure
None known

Aspiration hazard
No information available

Symptoms / effects, both acute and delayed
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information
No information available

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

12. Ecological information
Ecotoxicity
Do not empty into drains. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

<table>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Algae</th>
<th>Freshwater Fish</th>
<th>Microtox</th>
<th>Water Flea</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethoxyethyl acetate</td>
<td>Not listed</td>
<td>41 mg/L LC50 96 h</td>
<td>Not listed</td>
<td>354 mg/L EC50 = 24 h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>42.2 mg/L LC50 96 h 45 - 52 mg/L LC50 96 h</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence and Degradability
No information available

Bioaccumulation/Accumulation
No information available.

Mobility

<table>
<thead>
<tr>
<th>Component</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethoxyethyl acetate</td>
<td>0.24</td>
</tr>
</tbody>
</table>

13. Disposal considerations

Waste Disposal Methods
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

<table>
<thead>
<tr>
<th>DOT</th>
<th>TDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN-No</td>
<td>UN1172</td>
<td>UN1172</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>ETHYLENE GLYCOL MONOETHYL ACETATE</td>
<td>ETHYLENE GLYCOL MONOETHYL ACETATE</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td></td>
<td>ETHYLENE GLYCOL MONOETHYL ACETATE</td>
<td>ETHYLENE GLYCOL MONOETHYL ACETATE</td>
</tr>
<tr>
<td></td>
<td>III</td>
<td>III</td>
</tr>
</tbody>
</table>

Page 8 of 11 MSDS – Ethylene Glycol Mono ethyl Ether Acetate
### IMDG/IMO

<table>
<thead>
<tr>
<th>UN-No</th>
<th>Proper Shipping Name</th>
<th>Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1172</td>
<td>ETHYLENE GLYCOL MONOETHYL ETHER</td>
<td>3</td>
</tr>
</tbody>
</table>

### 15. Regulatory information

#### International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>NLP</th>
<th>PICCS</th>
<th>ENCS</th>
<th>AICS</th>
<th>IECSC</th>
<th>KECL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethoxyethyl acetate</td>
<td>X</td>
<td>X</td>
<td></td>
<td>203-839-2</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Legend:**

- **X** - Listed
- **E** - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- **F** - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- **N** - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- **P** - Indicates a commenced PMN substance
- **R** - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- **S** - Indicates a substance that is identified in a proposed or final Significant New Use Rule
- **T** - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- **XU** - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).
- **Y1** - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- **Y2** - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

**TSCA 12(b)**

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA 12(b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethoxyethyl acetate</td>
<td>Section 5</td>
</tr>
</tbody>
</table>

**SARA 313**
<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethoxyethyl acetate</td>
<td>111-15-9</td>
<td>100</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**SARA 311/312 Hazardous Categorization**

- **Acute Health Hazard**: Yes
- **Chronic Health Hazard**: Yes
- **Fire Hazard**: Yes
- **Sudden Release of Pressure Hazard**: No
- **Reactive Hazard**: No

**Clean Water Act** Not applicable

**Clean Air Act**

<table>
<thead>
<tr>
<th>Component</th>
<th>HAPS Data</th>
<th>Class 1 Ozone Depleters</th>
<th>Class 2 Ozone Depleters</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethoxyethyl acetate</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**OSHA Occupational Safety and Health Administration**

Not applicable

**CERCLA**

Not applicable

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>California Prop. 65</th>
<th>Prop 65 NSRL</th>
<th>Category</th>
</tr>
</thead>
</table>
| 2-Ethoxyethyl acetate      | 111-15-9| Developmen{{ developmental Male Reproductive | -             | Developmen{{ tal |}

**State Right-to-Know**

<table>
<thead>
<tr>
<th>Component</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethoxyethyl acetate</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**U.S. Department of Transportation**

Reportable Quantity (RQ):
- DOT Marine Pollutant: N
- DOT Severe Marine Pollutant: N

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U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade
No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class
- B2 Flammable liquid
- D1B Toxic materials
- D2A Very toxic materials

Disclaimer
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