

Section 1. Product and Company Identification

**Product Name** Tetraethylene Glycol Dimethyl Ether  
**CAS Number** 143-24-8

**Parchem - fine & specialty chemicals**

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EMERGENCY RESPONSE NUMBER  
CHEMTEL

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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008[EU-GHS/CLP]:** Reproductive toxicity (Category 1B), H360Df

**Classification according to EU Directives 67/548/EEC or 1999/45/EC:** May cause sensitization by inhalation and skin contact. Irritating to eyes, respiratory system and skin.

**GHS Label Elements**

**Pictograms:**



**Signal word:** DANGER

**Hazard and precautionary statements**

**Hazard statement(s)**

**H360Df:** May damage the unborn child. Suspected of damaging fertility

**Precautionary statement(s)**

**P201:** Obtain special instructions before use.

**P308 + P313 IF exposed or concerned:** Get medical advice/attention.

**Other hazards:** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Supplemental Hazard Statements:** None. Restricted to professional users.



Section 3. Composition / Information on Ingredients

**Common Name** Tetraethylene Glycol Dimethyl Ether  
**CAS Number** 143-24-8

Section 4. First Aid Measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

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

**In case of skin contact:** Wash off with soap and plenty of water while removing contaminated clothing and shoes. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes lifting the upper and lower lids. Consult a physician.

**If swallowed:** 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 labeling (see section 3) and/or in section 11.

**Indication of any immediate medical attention and special treatment needed:** no data available

Section 5. Firefighting 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 firefighting if necessary.

**Further information:** No data available.

Section 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.



### Section 7. Handling and Storage

**Handling:** Avoid inhalation of vapor or mist. Avoid exposure - obtain special instructions before use.

**Storage:** 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. Air sensitive. Forms explosive peroxides on prolonged storage May form peroxides on contact with air.

**Storage class (TRGS 510):** Non-combustible, acute toxic Cat.3/toxic hazardous materials or hazardous materials causing chronic effects

### Section 8. Exposure Controls / Personal Protection

#### 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:** Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin 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 hand dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection:** Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN14387) respirator cartridges as a backup to engineer protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Section 9. Physical and Chemical Properties

**Form:** clean liquid

**Color:** Colorless

**Odor:** No data available

**Odor Threshold:** No data available

**pH:** No data available

**Melting Point/Freezing Point:** -30 °C- lit.

**Initial Boiling Point and Boiling Range:** 275~276 °C- lit.

**Flash Point:** 141°C closed cup

**Evaporation Rate:** No data available  
**Flammability (solid, gas):** No data available  
**Upper/Lower Flammability or Explosive Limits:** No data available  
**Vapor Pressure:** < 0.01 mmHg at 20 °C  
**Vapor Density:** 7.67 - (Air = 1.0)  
**Relative Density:** 1.009 g/cm<sup>3</sup> at 25 °C  
**Water Solubility:** No data available  
**Partition Coefficient n-octanol/water:** No data available  
**Auto-ignition Temperature:** No data available  
**Decomposition Temperature:** No data available  
**Viscosity:** 3.69 mm<sup>2</sup>/s at 20°C  
**Explosive Properties:** No data available  
**Oxidizing Properties:** No data available

**Other safety information**

**Relative vapor density:** 7.67 - (Air = 1.0)

Section 10. Stability and Reactivity

**Reactivity:** No data available.  
**Stability:** Stable under recommended storage conditions.  
**Possibility of hazardous reactions:** Reacts with air to form peroxides  
**Conditions to avoid:** No data available.  
**Incompatible materials:** Strong acids, Oxidizing agents, Oxygen  
**Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions. - Carbon oxides  
**Other decomposition products:** No data available  
**In the event of fire:** see section 5

Section 11. Toxicological Information

**Information on toxicological effects**

**Acute toxicity:** LD50 Oral - Rat - 5,140 mg/kg (Tetraethyleneglycol dimethyl ether)  
**Behavioral:** Somnolence (general depressed activity).  
**Gastrointestinal:** Other changes. Kidney, Ureter, Bladder: Other changes.

**Skin corrosion/irritation**

**Skin:** Rabbit (Tetraethylene glycol dimethyl ether)  
**Result:** No skin irritation (OECD Test Guideline 404)

**Serious eye damage/eye irritation**

**Eyes:** Rabbit (Tetraethylene glycol dimethyl ether)  
**Result:** No eye irritation (OECD Test Guideline 405)



**Respiratory or skin sensitization:** No data available.

**Germ cell mutagenicity:** No data available.

**Carcinogenicity**

**IARC:** 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:** Some evidence of adverse effects on sexual function and fertility, based on animal experiments. Clear evidence of adverse effects on development, based on animal experiments. (Tetraethylene glycol dimethyl ether)

**Specific target organ toxicity - single exposure (Globally Harmonized System):** No data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System):** No data available

**Aspiration hazard:** No data available

**Additional Information**

**RTECS:** SB0400000. Nausea, Headache, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Tetraethylene glycol dimethyl ether)

Section 12. Ecological Information

**Toxicity:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Results of PBT and vPvB assessment:** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very Bioaccumulative (vPvB) at levels of 0.1% or higher.

**Other adverse effects:** No data available

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**ADR/RID:** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods



**Environmental hazards**

**ADR/RID:** no

**IMDG Marine pollutant:** no

**IATA:** no

**Special precautions for user:** No data available

Section 15. Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture:** This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Authorizations and/or restrictions on use**

**Chemical safety assessment:** A Chemical Safety Assessment has been carried out for this substance.

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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