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Material Safety Data Sheet

Tetraethylene Glycol Dimethyl Ether

Section 1: Chemical Product and Company Identification

Product Name: Tetraethylene Glycol Dimethyl Ether

CAS No: 143-24-8

MF: C10H22O5

EINECS: 205-594-7

Synonyms:

1-(2-methoxyethoxy)-2-[2-(2-methoxyethoxy)-ethoxy]-ethane; 1,11-dimethoxy-3,6,9-trioxa-undecane; Ansol E-181; Ansol Ether 181AT; ansulether181at; e181(ether); Ether, bis[2-(2-methoxyethoxy)ethyl]; ether, bis(2-(2-methoxyethoxy)ethyl)

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	By Weight
Tetraethylene glycol dimethyl ether	143-24-8	≥ 99.0%

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Emergency overview

Warning! Causes eye irritation. Hygroscopic (absorbs moisture from the air). Air sensitive. May cause skin and respiratory tract irritation. Target Organs: Eyes.

Potential health effects

Eye: Causes eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause digestive tract disturbances.

Inhalation: May cause respiratory tract irritation.

Chronic: No information found.

Section 4: First Aid Measures

If inhaled:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

If on skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

If in eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

If swallowed:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Notes to Physician:

Treat symptomatically and supportively.

Section 5: Fire and Explosion Data

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Autoignition Temperature:

200 deg C (392.00 deg F)

Flash Point:

116 deg C (240.80 deg F)

Explosion Limits:

Lower: .80 vol %

Explosion Limits:

Upper: .00 vol %

NFPA Rating: health: 1; flammability: 1; instability: 0;

Section 6: Accidental Release Measures

General Information:
 Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:
 Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

Section 7: Handling and Storage

Handling:
 Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation.

Storage:
 Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

Section 8: Exposure Controls/Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Tetraethylene glycol dimethyl ether	none listed	none listed	none listed

OSHA Vacated PELs: Tetraethylene glycol dimethyl ether: None listed

Engineering Controls:
 Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes:
 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:
 Wear appropriate protective gloves to prevent skin exposure.

Clothing:
 Wear appropriate protective clothing to prevent skin exposure.

Respirators:
 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.

Section 9: Physical and Chemical Properties

Physical State:	Liquid
Color:	Colorless
Odor:	None reported.
PH:	Not available
Vapor Pressure:	Not available
Vapor Density:	7.7
Evaporation Rate:	Not available
Viscosity:	20.00 deg C
Boiling Point:	275.0 - 276.0 deg C
Freezing/Melting Point:	-30 deg C (-22.00 F)
Decomposition Temperature:	Not available
Solubility in water:	soluble
Specific Gravity/Density:	1.0090g/cm3
Molecular Formula:	C10H22O5
Molecular Weight:	222.28

Section 10: Stability and Reactivity Data

<p>Chemical Stability: Stable under normal temperatures and pressures.</p> <p>Conditions to Avoid: Incompatible materials, strong oxidants, moist air.</p> <p>Incompatibilities with Other Materials Not available</p> <p>Hazardous Decomposition Products Carbon monoxide, carbon dioxide, carbon dioxide.</p> <p>Hazardous Polymerization Has not been reported.</p>

Section 11: Toxicological Information

<p>RTECS#: CAS# 143-24-8: SB0400000</p> <p>LD50/LC50: Draize test, rabbit, eye: 500 mg Mild; Oral, rat: LD50 = 5140 mg/kg;</p> <p>Carcinogenicity: Tetraethylene glycol dimethyl ether - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.</p> <p>Other: See actual entry in RTECS for complete information.</p>

Section 12: Ecological Information

Not available

Section 13: Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36 Irritating to eyes.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

Section 16: Other Information

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