

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
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MATERIAL SAFETY DATA SHEET

CELLOSOLVE 99.5% AR (2-Ethoxyethanol) (Ethyl Cellosolve) MSDS CAS: 110-80-5

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: CELLOSOLVE

CAS#: 110-80-5

Synonym: 2-Ethoxyethanol, Ethylene Glycol Monoethyl Ether

Chemical Name: Not available.

Chemical Formula: C₄-H₁₀-O₂

Brand : OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
{2-}Ethoxyethanol	110-80-5	100

Section 2: Composition and Information on Ingredients (Continued)

Toxicological Data on Ingredients: 2-Ethoxyethanol: ORAL (LD50): Acute: 2125 mg/kg [Rat]. 2451 mg/kg [Mouse]. DERMAL (LD50): Acute: 3300 mg/kg [Rabbit].

Section 3: Hazards Identification

Potential Acute Health Effects:

Very hazardous in case of skin contact (irritant), of inhalation. Hazardous in case of eye contact (irritant), of ingestion.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to blood, kidneys, lungs, the nervous system, liver, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Section 4: First Aid Measures (Continued)

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 235°C (455°F)

Flash Points: CLOSED CUP: 43°C (109.4°F). (Setaflash) OPEN CUP: 48.9°C (120°F) (Cleveland).

Flammable Limits: LOWER: 1.8% UPPER: 16%

Products of Combustion: These products are carbon oxides (CO, CO₂).

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

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Section 5: Fire and Explosion Data (Continued)

Fire Fighting Media and Instructions:

Flammable liquid, soluble or dispersed in water.

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill:

Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage:

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Ground all equipment containing material. Keep container dry. Keep in a cool place.

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Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 5 from ACGIH (TLV) [United States] TWA: 18 from ACGIH (TLV) [United States] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor	: Pleasant
Taste	: Bitter.
Molecular Weight	: 90.12g/mole.
Color	: Clear Colorless.
pH (1% soln/water)	: Not available.
Boiling Point	: 135.1°C (275.2°F)
Melting Point	: -70°C (-94°F)
Critical Temperature	: Not available.
Specific Gravity	: 0.931(Water = 1)
Vapor Pressure	: 0.5 kPa (@ 20°C)
Vapor Density	: 3.11 (Air = 1)
Volatility	: Not available.
Odor Threshold	: 0.5 ppm

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Section 9: Physical and Chemical Properties (Continued)

Water/Oil Dist. Coeff. : The product is more soluble in oil; $\log(\text{oil/water}) = 0.3$
Ionicity (in Water) : Not available.
Dispersion Properties : See solubility in water.
Solubility : Soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 2125 mg/kg [Rat]. Acute dermal toxicity (LD50): 3300 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 2000 8 hours [Rat].

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Section 11: Toxicological Information (Continued)

Chronic Effects on Humans:

Causes damage to the following organs: blood, kidneys, lungs, the nervous system, liver, mucous membranes.

Other Toxic Effects on Humans:

Very hazardous in case of skin contact (irritant), of inhalation. Hazardous in case of ingestion.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

Animal: embryotoxic, induces sterility; decrease of sperm count.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal :

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Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : ETHYLENE GLYCOL MONOETHYL ETHER ACETATE

UN N° : 1171

ADR - Class : 3

Labelling - Transport : 3 : Flammable liquid.

ADR - Group : III.

Sea transport (IMDG) [English only]

Proper shipping name : ETHYLENE GLYCOL MONOETHYL ETHER ACETATE

UN N° : 1171

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

IMO-IMDG - Packing group : III

Air transport (ICAO-IATA) [English only]

Proper shipping name : ETHYLENE GLYCOL MONOETHYL ETHER ACETATE

UN N° : 1171

IATA - Class or division : 3 : Flammable liquid.

IATA - Packing group : III

Section 15: Other Regulatory Information

Federal and State Regulations:

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: 2-Ethoxyethanol
California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: 2-Ethoxyethanol
California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: 2-Ethoxyethanol
Pennsylvania RTK: 2-Ethoxyethanol
Massachusetts RTK: 2-Ethoxyethanol
TSCA 8(b) inventory: 2-Ethoxyethanol
SARA 313 toxic chemical notification and release reporting: 2-Ethoxyethanol
CERCLA: Hazardous substances.: 2-Ethoxyethanol.

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Section 15: Other Regulatory Information (Continued)

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC): R10- Flammable. R20- Harmful by inhalation. R36/38- Irritating to eyes and skin.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 2

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 2

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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