OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

CELLOSOLVE ACETATE 99%

(For Synthesis)
(2-Ethoxyethyl Acetate)
MSDS CAS: 111-15-9

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: CELLOSOLVE ACETATE
CAS#: 111-15-9
Synonym: 2-Ethoxyethyl acetate, Ethylene Glycol Monoethyl Ether Acetate
Chemical Name: Not available.
Chemical Formula: $C_6H_{12}O_3$

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-}Ethoxyethyl acetate	111-15-9	100

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Section 2: Composition and Information on Ingredients (Continued)

Toxicological Data on Ingredients: 2-Ethoxyethyl acetate: ORAL (LD50): Acute: 2700 mg/kg [Rat.]. DERMAL (LD50): Acute: 10500 mg/kg [Rabbit.]. VAPOR (LC50): Acute: 17112 ppm 4 hour(s) [Rat.].

Section 3: Hazards Identification

Potential Acute Health Effects:

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

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Classified SUSPECTED for human.
DEVELOPMENTAL TOXICITY: PROVEN The substance is toxic to the reproductive system.
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. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:

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

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Section 4: First Aid Measures (Continued)

Inhalation:
Allow the victim to rest in a well ventilated area. Seek immediate 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. Seek medical attention.

Ingestion:
Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: **Not available.**

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 379°C (714.2°F)

Flash Points: CLOSED CUP: 48.9°C (120°F). OPEN CUP: 56°C (132.8°F) (Cleveland).

Flammable Limits: LOWER: 1.7% UPPER: 6.7%

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

Fire Hazards in Presence of Various Substances:
Flammable in presence of open flames and sparks, of heat.

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: Combustible. Keep container tightly closed. When heated to decomposition it emits acrid smoke and irritating fumes.

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. Eliminate all ignition sources. 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 locked up Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Wear suitable protective clothing If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes Keep away from incompatibles such as oxidizing agents, acids, alkalis.

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Section 7: Handling and Storage (Continued)

Storage:

Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. Keep container dry. Keep in a cool place.

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 (ppm) TWA: 27 (mg/m3)Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid. (Liquid.)

Odor	**: Pleasant ester-like.**
Taste	**: Not available.**
Molecular Weight	**: 132.16 g/mole**
Color	**: Colorless.**
pH (1% soln/water)	**: 7 [Neutral.]**

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Section 9: Physical and Chemical Properties (Continued)

Boiling Point	**: 156°C (312.8°F)**
Melting Point	**: -61.7°C (-79.1°F)**
Critical Temperature	**: Not available.**
Specific Gravity	**: 0.97 (Water = 1)**
Vapor Pressure	**: 2 mm of Hg (@ 20°C)**
Vapor Density	**: 4.72 (Air = 1)**
Volatility	**: Not available.**
Odor Threshold	**: Not available.**
Water/Oil Dist. Coeff.	**: Not available.**
Ionicity (in Water)	**: Not available.**
Dispersion Properties	**: See solubility in water.**
Solubility	**: Soluble in cold water, hot 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: **Reactive with oxidizing agents, acids, alkalis.**

Corrosivity: **Non-corrosive in presence of glass.**

Special Remarks on Reactivity: **Not available.**

Special Remarks on Corrosivity: **Not available.**

Polymerization: **No.**

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Section 11: Toxicological Information

Routes of Entry: **Eye contact. Ingestion.**

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 2700 mg/kg [Rat.]. Acute dermal toxicity (LD50): 10500 mg/kg [Rabbit.]. Acute toxicity of the vapor (LC50): 17112 ppm 4 hour(s) [Rat.].

Chronic Effects on Humans:
TERATOGENIC EFFECTS: Classified SUSPECTED for human. DEVELOPMENTAL TOXICITY: PROVEN The substance is toxic to the reproductive system.

Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant), of ingestion. Slightly hazardous in case of skin contact (permeator), of inhalation.

Special Remarks on Toxicity to Animals: **Not available.**

Special Remarks on Chronic Effects on Humans:
0001 Induces sterility in animal. 0307 Embryotoxic and/or foetotoxic in animal.

Special Remarks on other Toxic Effects on Humans:
Exposure can cause nausea, headache and vomiting.

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.**

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Section 13: Disposal Considerations

Waste Disposal :

Section 14: Transport Information

Land transport (ADR-RID)
Proper shipping name : ETHYLENE GLYCOL MONOETHYL ETHER ACETATE
UN N° : 1172
H.I. nr : 30
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° : 1172
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° : 1172
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-Ethoxyethyl acetate California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm**

Section 15: Other Regulatory Information (Continued)

(female) which would require a warning under the statute: 2-Ethoxyethyl acetate 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-Ethoxyethyl acetate Pennsylvania RTK: 2-Ethoxyethyl acetate Florida: 2-Ethoxyethyl acetate Minnesota: 2- Ethoxyethyl acetate Massachusetts RTK: 2-Ethoxyethyl acetate New Jersey: 2-Ethoxyethyl acetate TSCA 8(b) inventory: 2-Ethoxyethyl acetate.

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. R36/38- Irritating to eyes and skin. R61- May cause harm to the unborn child.

HMIS (U.S.A.):

Health Hazard: 1
Fire Hazard: 2
Reactivity: 0
Personal Protection: h

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

Health: 1
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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