

MATERIAL SAFETY DATA SHEET (MSDS)



ETHYL GLYCOL ACETATE

1. PRODUCT IDENTIFICATION:

Synonyms: Ethylene Glycol Mono ethyl Ether Acetate; Oxitol acetate; 2-Ethoxyethyl acetate; Cellosolve acetate

CAS No.: 111-15-9

Molecular Weight: 132

Chemical Formula: C₆H₁₂O₃

COMPANY IDENTIFICATION:

Central Office: No 202, Shahid Beheshti Ave., Tehran-Iran

Post Code: 1577836331

Tel: +982188524300 (10 Lines)

Fax: +982188170565

Factory: Arghavan 3 Ave., No.2 Industrial Zone, Arak-Iran

Post Code: 3833151743

Tel: +988633573306 (10 Lines)

Fax: +988633573236

Web: www.Exirpooyan.com

Email: info@exirpooyan.com

2. HAZARDS IDENTIFICATION:

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

LABEL ELEMENTS

Hazard symbols:



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/protective clothing/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.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

Components	CAS-No.	Percent
Ethyl glycol acetate	111-15-9	99-100%

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.

5. FIRE FIGHTING MEASURES:**FLAMMABLE PROPERTIES:**

Suitable extinguishing media	CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
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.
Further information	Flammable. Keep product and empty container away from heat and sources of ignition.

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.
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:

Safe handling advice	Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapors/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/Transport pressure	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:

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.

EXPOSURE GUIDELINES:

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

Components	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl glycol Acetate	TWA: 5 ppm Skin	(Vacated) TWA: 100 ppm (Vacated) TWA: 540 mg/m ³ Skin TWA: 100 ppm TWA: 540 mg/m ³	IDLH: 500 ppm TWA: 0.5 ppm TWA: 2.7 mg/m ³

PEL= Permissible Exposure Limits	TWA= Time Weighted Average (8 hr.)
TLV= Threshold Limit Value	STEL= Short Term Exposure Limit (15 min.)
EL= Excursion Limit	WEEL= Workplace Environmental Exposure Level

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	liquid
Color	Clear, colorless
Form	liquid
Odor	aromatic
Odor Threshold	No information available
Flash point	51 °C
Flammability	Upper explosion limit: 10.10%(V) Lower explosion limit: 1.70%(V)
Boiling point/boiling range	156 °C @ 760 mmHg
Melting point/range	-61 °C
Auto-ignition temperature	380 °C
Decomposition temperature	No data available
Flammability (solid, gas)	No information available
Vapor pressure	2.34 mmHg @ 25 °C
Vapor density	4.72 (Air = 1.0)
Density	0.975 g/cm ³ @ 20 °C, 68 °F
Relative density	No data available
Water solubility	Soluble in water
Viscosity	No data available
Viscosity, dynamic	0.45 mPa.s @ 20 °C, 68 °F
pH	No information available
Evaporation rate	0.2
Partition coefficient: n-octanol/water	No data available

10. STABILITY AND REACTIVITY

Reactive Hazard:

None known, based on information available under normal conditions.

Stability Conditions to Avoid Incompatible Materials:

Incompatible products.
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:

Inhalation rat LC50: 12.1 mg/L; oral rat LD50: 2700 mg/kg; Rabbit LD50: 10000 mg/kg.

12. ECOLOGICAL INFORMATION:

Eco toxicity:

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

13. DISPOSAL CONSIDERATIONS:

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:

DOT	UN 1172, ETHYLENE GLYCOL MONOETHYL ETHER ACETATE, 3, III
TDG	UN1172, ETHYLENE GLYCOL MONOETHYL ETHER ACETATE, 3, III
IATA	UN1172, ETHYLENE GLYCOL MONOETHYL ETHER ACETATE, 3, III
IMDG/IMO	UN1172, ETHYLENE GLYCOL MONOETHYL ETHER ACETATE, 3

15. REGULATORY INFORMATION:

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



Repr. Cat. 2
T Toxic

Exir Pooyan
Knowledge Based Co.

Risk phrases:

60	May impair fertility.
61	May cause harm to the unborn child.
20/21/22	Also harmful by inhalation, in contact with skin and if swallowed.

Safety phrases:

53 Avoid exposure - obtain special instructions before use.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. OTERE INFORMATION:

NFPA Ratings: Health: 2 Flammability: 2 Reactivity: 0