

MATERIAL SAFETY DATA SHEET (MSDS)



BUTYL GLYCOL ACETATE

1. PRODUCT IDENTIFICATION:

Synonyms: ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE, 2-Butoxyethyl acetat

CAS No.: 112-07-2

Molecular Weight: 160

Chemical Formula: $C_8H_{16}O_3$

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

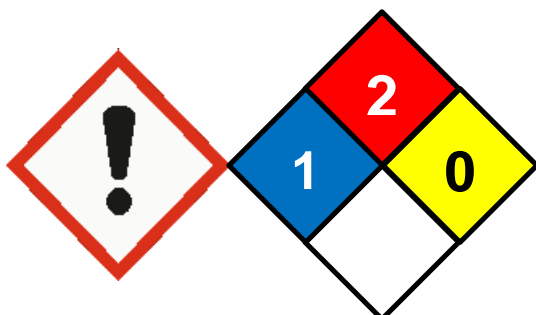
Email: info@exirpooyan.com

2. HAZARDS IDENTIFICATION:

OSHA/GHS:	Flammable liquids	Category 4
Hazards:	Acute dermal toxicity	Category 4
	Acute Inhalation Toxicity - Vapors	Category 4

LABEL ELEMENTS

Hazard symbols:



Signal word: Warning

Hazard statements:

H312+H332	Harmful in contact with skin or if inhaled.
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Precautionary statements:

P280	Wear protective gloves, protective clothing, face protection, eye protection.
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3. COMPOSITION/INFORMATION ON INGREDIENTS:

Components	CAS-No.	Percent
BUTYL GLYCOL ACETATE	112-07-2	99-100%

4. FIRST AID MEASURES:

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

5. FIRE FIGHTING MEASURES:

FLAMMABLE PROPERTIES:

Hazardous Combustion Products	Carbon monoxide (CO). Carbon dioxide (CO ₂).
Suitable extinguishing media	Water spray, carbon dioxide (CO ₂), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
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.
Specific Hazards Arising from the Chemical	Combustible material. Containers may explode when heated

6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges
Environmental Precautions	Should not be released into the environment. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Remove all sources of ignition.

7. HANDLING AND STORAGE:

Safe handling advice	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition.
Storage/Transport pressure	Keep away from heat, sparks and flame. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION:

ENGINEERING MEASURES:

Ensure adequate ventilation, especially in confined areas.

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:

Components	Exposure limit(s)
BUTYL GLYCOL ACETATE	ACGIH TLV (8-hour) 20 ppm NIOSH IDLH 5 ppm 33 mg/m ³ Mexico OEL (TWA) 20 ppm

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

ACGIH - American Conference of Governmental Industrial Hygienists

NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	liquid
Color	Colorless
Odor	sweet
Odor Threshold	No information available
Flash point	76 °C / 168.8 °F
Flammability	Upper explosion limit: 8.54%(V) Lower explosion limit: 0.88 %(V)
Boiling point/boiling range	193.5 °C / 380.3 °F @ 760 mmHg
Melting point/range	-64 °C / -83.2 °F
Auto-ignition temperature	340 °C / 644 °F
Decomposition temperature	No information available
Flammability (solid, gas)	Not applicable
Vapor pressure	0.375 mmHg @ 25 °C
Vapor density	5.3 (Air = 1.0)
Density	0.939 g/cm ³ @ 20 °C, 68 °F
Water solubility	1.5% at 20°C
Viscosity	No information available
pH	No information available
Evaporation rate	No information available
Partition coefficient: n-octanol/water	No data available

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Hazardous Decomposition Products:

Carbon monoxide (CO), Carbon dioxide (CO₂)

Hazardous Polymerization:

No information available.

Incompatibilities:

Strong oxidizing agents

Conditions to Avoid:

Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

11. TOXICOLOGICAL INFORMATION:

Inhalation rat LC₅₀: >400 ppm (Rat) 4h; oral rat LD₅₀: 2400 mg/kg; Skin rabbit LD₅₀: >1500 mg/kg.

12. ECOLOGICAL INFORMATION:

Eco toxicity:

Do not empty into drains.

Persistence and Degradability:

Soluble in water Persistence is unlikely based on information available.

Mobility:

Will likely be mobile in the environment due to its water solubility.

13. DISPOSAL CONSIDERATIONS:

Waste Disposal Methods:

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	COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY According to 49 CFR §173.150(f)(1), this material should be reclassified as NA1993, Combustible Liquid, NOS if it is shipped in bulk.
IATA	Not regulated
IMDG/IMO	Not regulated

15. OTHER INFORMATION:

NFPA Ratings: Health: 1 Flammability: 2 Reactivity: 0

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