

**Safety data sheet as per COMMISSION REGULATION (EU) No 453/2010
of 20 May 2010 amending Regulation (EC) No 1907/2006
Product: Ethylene glycol mono-tert-butyl ether**



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Ethylene glycol mono-tert-butyl ether/ ETB

CAS No.: 7580-85-0

EC No.: 616-267-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Solvent for paint and printing ink, cleaning products and surface coatings

It is used in acrylic resin formulations, asphalt release agents, fire-fighting foam

Also used in oil industry due to its surfactant properties

Sector of use: SU 3 Industrial uses

Environmental release category: Manufacture (ERC1) and formulations (ERC2)

Manufacturer/Supplier:

Prasol Chemicals Ltd.,
Prasol House, Plot No.A-17/2/3,
T.T.C. Indl. Area, Khairne M.I.D.C.,
Navi Mumbai - 400 710.
Maharashtra, India.
Tel: +91-22-27782555
Fax: +91-22-27782430

Further information obtainable from:

Mr. Dhaval Parikh

e-mail:sales@prasolchem.com; inquiry@prasolchem.com

Information in case of emergency:

Product safety department Tel: +91-22- 27782555; Fax: +91-22- 27782430

Other Comments (e.g. language(s) of the phone service): English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)



GHS02

Flam Liq. 3

Skin Irrit. 2

Eye Irrit. 2

STOT SE 3a



GHS07

H226

H315

H319

H335



GHS08

Flammable liquid and vapour

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation

2.1.2 Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R10 Flammable

R36/37/38 Irritating to eyes, respiratory system and skin

Information concerning particular hazards for human and environment: Not applicable

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP)

The product does not need to be labeled in accordance with EC directives or respective national laws.

Hazard pictograms



GHS02



GHS07



GHS08

Signal word warning

Hazard-determining components of labeling: Void

Hazard statements

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303 + P361+ P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P370 + P378 In case of fire: Use sand, CO2 or extinguishing powder for extinction

2.3 Other hazards

Results of PBT and vPvB assessment: Not applicable

SECTION 3: Composition/information on ingredients

Chemical characterization:

CAS No. Description

7580-85-0 Ethylene glycol mono-tert-butyl ether/ ETB

Identification number(s)

EC Number: 616-267-7

Additional information:

Molecular Formula: C6H14O2

Molecular Weight: 118.18g/mol

SECTION 4: First aid measures

4.1 General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

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

After swallowing: If symptoms persist consult doctor.

Information for doctor: Treat symptomatically and supportively.

4.2 Most important symptoms and effects, both acute and delayed Irritation, redness

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing agents: sand, Carbon dioxide (CO2), foam, dry powder

5.2 Special hazards caused by the substance, its products of combustion or resulting gases: Carbon oxides

5.3 Protective equipment: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Person-related safety precautions: Wear protective clothing. Avoid contact with the skin, eyes and clothing.

6.2 Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

6.3 Measures for cleaning/collecting:

Cover drains. Collect, bind, and pump off spills. Take up with liquid absorbent material. Dispose of properly. Clean up affected area.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

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SECTION 7: Handling and storage

7.1 Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection.

Information about fire - and explosion protection: Keep ignition sources away. Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well-ventilated area.

Store away from acids and strong oxidizing agents

Information about storage in one common storage facility: Store away from incompatible materials.

Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s) No further relevant information available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protection of hands: Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Full contact: Glove material- Nitrile rubber Glove thickness: 0.11 mm

Splash contact: Glove material- Nitrile rubber Glove thickness: 0.11 mm

Penetration time of glove material

Full contact: Recommended break through time: >480 min

Splash contact: Recommended break through time: >480min

Eye protection: Tightly sealed goggles; Face shield

Body protection: Apron, boots.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: colorless liquid
Odor	: no data available
Odor threshold	: not applicable
pH	: not applicable
Melting point/Melting range	: no data available
Boiling point/Boiling range	: 152°C
Flash point, open cup	: 55°C
Evaporation rate	: no data available
Flammability (solid, gas)	: not applicable
Upper/lower flammability or explosive limits:	no data available
Vapor pressure at 20°C	: no data available
Vapor density	: no data available
Density at 25°C	: 0.9g/cm ³
Solubility in / Miscibility with water	: miscible
Partition coefficient (n-octanol/ water)	: log Pow = 0.36 at 25°C

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Auto-ignition temperature : no data available
Decomposition temperature : no data available
Viscosity: Dynamic at 20°C : no data available
Explosive properties : No explosive properties
Oxidizing properties : No oxidizing properties

9.2 Other information

Bulk density (solid) 0.53g/L

SECTION 10: Stability and reactivity

10.1 Reactivity: stable under normal handling and storage conditions

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions When handled and stored appropriately, no dangerous reactions are known.

10.4 Conditions to avoid Keep away from excess heat

10.5 Incompatible materials: acids, acid chlorides, isocyanates, strong oxidizing agents

10.6 Hazardous decomposition products: May emit toxic and irritant fumes in fire conditions

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LC0 inhalation 5h; 2400ppm; rat

Skin corrosion/irritation: irritant for skin and mucous membranes

Serious eye damage/irritation: irritant effect

Respiratory or skin sensitization: no sensitizing effect known

Germ cell mutagenicity: no data available

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

Reproductive toxicity: no data available

STOT-single exposure: irritating to eye and skin

STOT-repeated exposure: no further data

Aspiration hazard: not determined

Additional information: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

LC50	96h	>100 mg/L	Oryzias latipes
EC50	48h	> 1000mg/L	Daphnia magna
EC50	72h	>870mg/L	Selenastrum capricornutum

12.2 Persistence and degradability 6 % (by BOD), 0 % (by TOC), 68 % (by GC)

12.3 Bio-accumulative potential:

Partition coefficient: n-octanol/water log Pow 0.36

12.4 Mobility in soil no further data; the substance will not evaporate into the atmosphere from the water surface.

Additional ecological information:

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment To be provided after the REACH registration

12.6 Other adverse effects No further relevant information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation: Observe all federal, state, and local environmental regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Contaminated packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

Land Transport (ADR/RID) Marine Transport (IMDG) Air Transport (ICAO/ IATA)

14.1 UN/ID Number: 3271

14.2 UN proper shipping name Ethers, n.o.s.

14.3 Transport hazard: 3

14.4 Packaging group: III

14.5 Environmental hazards: none

14.6 Special precautions for the user:

EMS Number : F-E,S-D

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006

Hazard pictograms Please refer section 2

Signal word warning

Hazard statements Please refer section 2

Precautionary statements Please refer section 2

Labeling 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: please refer Section 2

Risk phrases: please refer Section 2.

15.2 Chemical safety assessment A Chemical Safety Assessment has not been carried out and shall be available at the time of REACH registration

Substances of very high concern (SVHC) according to REACH, Article 57

The substance is not listed as SVHC.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS:

Product safety department.

Contact:

Tel: +91-022-27782555

Fax: +91-022-27782430

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EC50: half maximal effective concentration

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

Sources

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REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

ECHA: <https://echa.europa.eu/substance-information/-/substanceinfo/100.125.495>

Data compared to the previous version altered.

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PRASOL