

**Safety data sheet as per Commission Regulation (EU) 2015/830**  
**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
Chemical Name	2-(tert-butoxy)ethan-1-ol
CAS Number	7580-85-0
EC Number	616-267-7

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

<b>Relevant identified uses</b>	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
<b>Uses identified against</b>	Not for use other than those specified

**1.3 Details of the supplier of the safety data sheet:**

Manufacturer	Prasol Chemicals Pvt. 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.
Telephone	+91-22-27782555
Telefax	+91-22-27782430
e-mail address	sales@prasolchem.com; inquiry@prasolchem.com

**1.4 Emergency telephone number**

Telephone	+91-22- 27782555
Language	English

◆ **SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

Flammable Liquid	Category 3	H226	Flammable liquid and vapor
Skin Irritation	Category 2	H315	Causes skin irritation
Eye Irritation	Category 2	H319	Causes serious eye irritation
Specific Target Organ Toxicity	Category 3a	H335	May cause respiratory irritation.

**Information concerning particular hazards for human and environment:** No further information

**2.2 Label elements**

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

**Hazard pictograms**



GHS02

GHS07

GHS08

**Signal word**

Warning

**Hazard statements**

H226	Flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

**Precautionary statements**

<b>General</b>	P103	Read label before use.
<b>Prevention</b>	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P233	Keep container tightly closed
	P240	Ground and bond container and receiving equipment
	P241	Use explosion - proof [electrical/ventilating/lighting/...] equipment
	P242	Use non-sparking tools
	P243	Take action to prevent static discharge
	P261	Avoid breathing fume/gas/mist/ vapours/spray
	P264	Wash hands thoroughly after handling.
	P271	Use only outdoors or in a well -ventilated area
	P280	Use protective gloves and eye protection.
<b>Response</b>	P302 + P352	IF ON SKIN: Wash with plenty of water and mild soap.
	P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

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	P304+P340	skin with water.
	P305+P351+P338	IF INHALED: Remove person to fresh air and keep comfortable for breath IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P312	Call a doctor if you feel unwell.
	P321	Specific treatment: Wash with plenty of water and seek medical advice if necessary.
	P332 + P313	If skin irritation occurs: Get medical advice.
	P337+P331	If eye irritation persists: Get medical advice.
	P362 + P364	Take off contaminated clothing and wash it before reuse.
	P370+P378	In case of fire: Use CO <sub>2</sub> , dry powder, foam or water spray to extinguish.
<b>Storage</b>	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
	P403+P235	Store in a well-ventilated place. Keep cool.
	P405	Store locked up.
<b>Disposal</b>	P501	Dispose of contents and container in accordance with national regulations

### 2.3 Other hazards

Not a PBT, vPVB substance according to the criteria of REACH regulation

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Ingredient	CAS No.	EC No.	Concentration (%)
Ethylene glycol mono-tert-butyl ether/ ETB	7580-85-0	616-267-7	99 min

**Additional information:**

Molecular Formula	C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>
Molecular Weight	118.18

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>General information</b>	Take off all contaminated clothing immediately.
<b>After inhalation</b>	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention
<b>After skin contact</b>	Wash off with plenty of water immediately, seek medical advice if necessary.
<b>After eye contact</b>	Rinse with plenty of water immediately and seek medical advice.
<b>After swallowing</b>	Do not induce vomiting and seek medical advice immediately.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	General: Unconsciousness Dizziness Headache. In case of ingestion: Gastric and intestinal problems. After contact with skin: Irritant. After eye contact: Irritant.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically and supportively.

## SECTION 5: Firefighting measures

<b>5.1 Extinguishing media</b>	
<b>Suitable extinguishing media</b>	CO <sub>2</sub> , dry powder, foam or water spray
<b>Unsuitable extinguishing media</b>	water jet
<b>5.2 Special hazards arising from the substance or mixture</b>	Flammable. Explosive mixtures with air may even form at room temperature. Beware of re-ignition Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may back-flash over great distances when ignited. Ignition by hot surfaces, sparks and open flames. May form toxic carbon oxides if case of fire.
<b>5.3 Advice for firefighters</b>	Do not expose to high temperature. Danger of bursting and explosion. Use fine water spray to cool endangered containers. Move undamaged containers from immediate hazard area. Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

◆ **SECTION 6: Accidental release measures**

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Remove persons not involved upwind. Wear a self-contained breathing apparatus and chemical protective clothing. Solvent-resistant protective clothing recommended.
<b>6.2 Environmental precautions</b>	Plug leak if safely possible. Do not allow to enter drains, surface waters, basements or pits. When released into the environment, alert police and fire brigade.
<b>6.3 Methods and material for containment and cleaning up</b>	In case of spills of large quantities: Dam spills and pump to remove. Explosion protection required. Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal.
<b>6.4 Reference to other sections</b>	Section 8 for information on personal protection equipment. Section 13 for disposal information

◆ **SECTION 7: Handling and storage**

<b>7.1 Precautions for safe handling</b>	Provide adequate ventilation, and local exhaust as needed. Provide room air exhaust at ground level. Concentrated vapours are heavier than air. Avoid the formation of aerosol. Do not breathe vapours. Use only explosion-protected equipment/instruments. Do not use air pressure..
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Beware of re-ignition. Potentially explosive mixture may form within partially empty containers. Emergency cooling must be provided for in case of a fire in the vicinity. Do not weld.
<b>Advice on protection against fire and explosion</b>	Keep container dry. Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight. Incompatible products: Acid catalysts (sulphuric acid, hydrochloric acid, oxalic acid), Iodine, Bases, Acetic anhydride, Hydrogen peroxide (concentrated solutions) Packaging material: Recommended: Stainless steel, Iron To be avoided: Plastic materials
<b>Storage</b>	Observe prohibition against storing together!
<b>Advice on common storage</b>	3 Flammable liquids
<b>Storage class</b>	Stable under recommended storage conditions
<b>Storage stability</b>	Solvent
<b>7.3 Specific end use(s)</b>	

◆ **SECTION 8: Exposure controls/personal protection**

<b>8.1 Control parameters</b>	Exposure limits not determined
<b>8.2 Exposure controls</b>	
<b>Appropriate engineering controls</b>	Explosion protection required. Provide good ventilation and/or an exhaust system in the work area.
<b>Personal protective equipment</b>	
<b>Eye/ face protection</b>	closed goggles, face shield
<b>Skin protection</b>	
<b>Hand protection</b>	Butyl-rubber                      0.5 mm                      > 480 min
<b>Body protection</b>	Use solvent-resistant protective clothing. Flame-retardant antistatic protective clothing; safety shoes
<b>Respiratory protection</b>	Respiratory equipment with suitable filter or a self-contained respiratory apparatus.
<b>Thermal hazards</b>	Flammable liquid; do not expose to heat
<b>Industrial hygiene</b>	Do not inhale vapours / aerosols. Avoid contact with skin and eyes. Remove immediately all contaminated clothing. Use disposable clothing if appropriate. Smoking, eating and drinking should be prohibited in the application area.



**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

◆	<b>Appearance</b>	Colourless liquid
	<b>Odour</b>	no data available
	<b>Odour threshold</b>	no data available
	<b>pH</b>	not determined (does not liberate H ions when dissolved)
	<b>Melting point</b>	no data available
	<b>Boiling point</b>	152°C
	<b>Flash point</b>	55°C (Closed cup)
	<b>Evaporation rate</b>	no data available
	<b>Flammability (solid, gas)</b>	not applicable
	<b>Flammability limits</b>	no data available
	<b>Vapour pressure</b>	no data available
	<b>Vapour density</b>	no data available
	<b>Relative density</b>	0.9 at 20°C
	<b>Solubility in water</b>	fully miscible at 20°C
	<b>Partition coefficient</b>	log Kow (n-octanol/water) 0.36 at 25°C
	<b>Ignition temperature</b>	no data available
	<b>Decomposition temperature</b>	no data available
	<b>Viscosity at 20 °C</b>	no data available
	<b>Explosive properties</b>	No explosive properties.
	<b>Oxidizing properties</b>	no oxidizing properties
	<b>9.2 Other information</b>	no further information

**SECTION 10: Stability and reactivity**

◆	<b>10.1 Reactivity</b>	Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may back-flash over great distances when ignited. May become electrostatically charged.
	<b>10.2 Chemical stability</b>	Under storage at normal ambient temperatures (-40°C to +40°C), the product is stable.
	<b>10.3 Possibility of hazardous reactions</b>	No known hazardous reactions if used as directed
	<b>10.4 Conditions to avoid</b>	Flammable. Concentrated vapours are heavier than air. Forms explosive mixtures with air, also in empty, uncleaned containers.
	<b>10.5 Incompatible materials</b>	Acids (sulphuric acid, hydrochloric acid, oxalic acid: Risk of violent reaction. Bases (sensitive reaction), Acetic anhydride, Hydrogen peroxide (conc. solns)
	<b>10.6 Hazardous decomposition products</b>	Thermal decomposition products- carbon oxides

**SECTION 11: Toxicological information**

◆	<b>11.1 Information on toxicological effects</b>	
	<b>Acute toxicity</b>	
	LC0 inhalation 5h, rat	2400ppm not classified
	<b>Skin irritation</b>	irritant for skin and mucous membranes
	<b>Serious eye irritation</b>	irritating - 24 h (rabbit)
	<b>Respiratory or skin sensitization</b>	No sensitizing effects known
	<b>Germ cell mutagenicity</b>	non mutagenic (Ames test)
	<b>Carcinogenicity</b>	no indications for a carcinogenic potential
	<b>Reproductive toxicity</b>	no adverse effect on reproduction (rat)
	<b>STOT-single exposure</b>	irritating to eye and skin; Category 3 respiratory tract irritation
	<b>STOT-repeated exposure</b>	no further data
	<b>Aspiration hazard</b>	no data available

◆ **SECTION 12: Ecological information**

<b>12.1 Toxicity</b>				
<b>Aquatic toxicity</b>				
Toxicity to fish	LC50	96h	>100mg/L	<i>Oryzias latipes</i>
Toxicity to aquatic invertebrates	EC50	48h	>1000mg/L	<i>Daphnia magna</i>

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Toxicity to aquatic algae and cyanobacteria	EC50	72h	>870mg/L	<i>Selenastrum capricornutum</i>
<b>12.2 Persistence and degradability</b>				
<b>Biodegradation</b>	68 % (by GC)			
<b>12.3 Bioaccumulative potential</b>	Partition coefficient: n-octanol/water log Pow 0.36			
<b>12.4 Mobility in soil/ water</b>	The substance will not evaporate into the atmosphere from water surface.			
<b>12.5 Results of PBT and vPvB assessment</b>	Not a PBT, vPvB substance according to the REACH regulation			
<b>12.6 Other adverse effects</b>	No further information available			

### SECTION 13: Disposal considerations

<b>13.1 Waste treatment methods</b>	Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Do not dispose in sewage.
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### ◆ SECTION 14: Transport information

	ADR/RID	IMDG	ICAO/IATA
<b>14.1 UN Number</b>	3271	3271	3271
<b>14.2 UN proper shipping name</b>	ETHERS, N.O.S.		
<b>14.3 Transport hazard class</b>	3	3	3
<b>14.4 Packaging group</b>	III	III	III
<b>14.5 Environmental hazards</b>	not environmentally hazardous, not a marine pollutant		
<b>14.6 Special precautions for the user</b>	Flammable liquid; Flash point 55°C (closed cup)		
<b>EmS Number</b>	F-E, S-D		
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	See regulatory information for transport approval		

### ◆ SECTION 15: Regulatory information

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>		
<b>Major accident hazard</b>	<b>Seveso III</b>	P5a (Flammable liquid)
<b>International Chemical Inventory Status</b>		
<b>USA (TSCA)</b>	listed	
<b>Canada (DSL)</b>	listed	
<b>Australia (AICS)</b>	listed	
<b>Japan (MITI)</b>	listed	
<b>Korea (KECL)</b>	listed	
<b>Philippines (PICCS)</b>	listed	
<b>China</b>	listed	
<b>New Zealand</b>	listed	
<b>Taiwan</b>	listed	
<b>15.2 Chemical safety assessment</b>	A Chemical Safety Assessment will be carried out at the time of REACH registration	

### ◆ 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.

#### Further information:

Sections in which changes have been made since the last version are marked with a diamond ◆ in the left hand margin.

#### Abbreviations and acronyms in English language:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Classification for Labeling and Packaging
DSL	Domestic Substances List
EC	European Commission
EC50	Half maximal effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances

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GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IATA	International Air Transport Association
IBC	International Bulk Chemical
ICAO	International Civil Aviation Organization
IMDG	International Maritime Code for Dangerous Goods
KECL	Korea Existing Chemicals List
KOC	Soil adsorption coefficient
KOW	Partition Coefficient octanol-water
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
MARPOL	International Convention for the Prevention of Pollution from Ships
MITI	Ministry of International Trade and Industry
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
PBT	Persistent, bioaccumulative and toxic substances
PICCS	Philippine Inventory of Chemicals and Chemical Substances
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT	Specific target organ toxicity
TSCA	Toxic Substances Control Act
UN	United Nations
vPVB	(very) Persistent, (very) Bioaccumulative

### Sources

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Chemid <https://chem.nlm.nih.gov/chemidplus/rn/7580-85-0>

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