

SAFETY DATA SHEET

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

Product identifier

Product name: Butyl Cellosolve

Additional identification

Chemical name: 2-Butoxyethanol, Butyl Glycol

CAS-No.: 111-76-2

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

Identified uses: Solvent

Uses advised against: None known

Details of the supplier of the safety data sheet**Manufacturer / Supplier**

Shatabdi Chemicals (P) Ltd.
E-16&11, Udyog Kunj Industrial Area,
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SECTION 2: Hazards identification

Hazard Classification:**Physical Hazards**

Flammable liquids Category 4

Health Hazards

Serious Eye Damage/Eye Irritation Category 2A

Skin Corrosion/Irritation Category 2

Acute Toxicity (Oral) Category 4

Aspiration Hazard Category 1

OSHA Specified Hazards: Not Applicable

Warning label items including precautionary statement:

Pictogram:



Signal Words: DANGER!

Hazard Statement(s): H227: Combustible liquid.
H302: Harmful if swallowed.
H304: Maybe fatal if swallowed and enters airways.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

Precautionary Statement:

Prevention: P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P370 + 378: In case of fire: Use water spray, carbon dioxide, dry chemical or foam for extinction.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P363: Wash contaminated clothing before reuse.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P301+P310: If SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331: Do NOT induce vomiting.

Storage: P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None known

SECTION 3: Composition/information on ingredients

Substances / Mixtures

General information:

Chemical name	Concentration	Additional identification	Notes
2-Butoxyethanol	100%	CAS-No.: 111-76-2	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

SECTION 4: First aid measures

Description of first aid measures

Inhalation:	Move to fresh air. Treat symptomatically. If breathing stops, provide artificial respiration.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.
Skin contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
Ingestion:	Call a physician or poison control center immediately. Only induce vomiting at the instruction of a medical personnel. Never give anything by mouth to an unconscious person.

Indication of any immediate medical attention and special treatment needed

Hazards:	Glycol Ethers: Some glycol ethers cause adverse effects in animals that include the reproductive system, offspring, blood, kidney and liver.
Treatment:	Treat symptomatically.

SECTION 5: Firefighting measures

General Fire Hazards:	Combustible liquid and vapor.
Extinguishing media	
Suitable extinguishing media:	Water spray; Dry chemical; Carbon Dioxide; Alcohol Foam
Unsuitable extinguishing media:	None known
Special hazards arising from the substance or mixture:	Forms peroxides of unknown stability.
Advice for firefighters	
Special fire fighting procedures:	Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in the case of fire.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear appropriate personal protective equipment.

Environmental Precautions:

Avoid release to the environment.

Methods and material for containment and cleaning up:

Eliminate sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Large Spillages: Use water spray to disperse vapors and dilute spill to a nonflammable mixture. Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

Notification Procedures:

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

SECTION 7: Handling and storage:

Precautions for safe handling:

Avoid breathing mist or vapor. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed and in a well-ventilated place.

Specific end use(s):

Solvent

SECTION 8: Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Country specific exposure limits have not been established or are not applicable unless listed below.

Chemical name	Type	Exposure Limit Values	Source
2-Butoxyethanol	TWA	20 ppm	US. ACGIH Threshold Limit Values (01 2010)
	PEL	50 ppm 240 mg/cu. m.	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Exposure controls

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information:	Eye bath; Washing facilities; Safety shower
Eye/face protection:	Wear safety glasses with side shields (or goggles). Wear a full-face respirator, if needed.
Skin protection	
Hand Protection:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Other:	No data available
Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.
Hygiene measures:	Observe good industrial hygiene practices.
Environmental Controls:	No data available

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	Liquid
Form:	Liquid
Color:	Colorless
Odor:	Mild sweet, ester
Odor Threshold:	0.48 ppm
pH:	No data available
Freezing Point	-75 °C
Boiling Point:	171 °C
Flash Point:	67 °C (Closed Cup)
Evaporation Rate:	0.1
Flammability (solid, gas):	No data available
Flammability Limit - Upper (%)—:	No data available
Flammability Limit - Lower (%)—:	No data available

Vapor pressure:	1.17 hPa (25 °C)
Vapor density (air=1):	4
Specific Gravity:	0.90 (20 °C)
Solubility(ies)	
Solubility in Water:	900 g/L (25 °C)
Solubility (other):	No data available
Partition coefficient (n-octanol/water):	Pow: 6.46 log Pow: 0.81
Autoignition Temperature:	No data available.
Decomposition Temperature:	124.7 °C (DSC) 21.7 J/g Weak exotherm
Dynamic viscosity:	3.3 mPa.s (20 °C)
Kinematic viscosity:	3.643 mm ² /s (20 °C)
Explosive properties:	Not data available
Oxidizing properties:	Not classified

Other information

Minimum ignition temperature:	230 °C (1,013 hPa, ASTM D2155)
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SECTION 10: Stability and reactivity

Reactivity:	None known
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	Forms peroxides of unknown stability.
Conditions to Avoid:	Heat; sparks; flames
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Carbon Dioxide; Carbon Monoxide

SECTION 11: Disposal considerations

Waste treatment methods

General information:	No data available
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Disposal methods:	Dispose of waste and residues in accordance with local authority requirements. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.
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