SAFETY DATA SHEET

This SDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

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Section 1 - Product & Company Identification

Product identifier

Product name: 2- BUTOXYETHANOL
Product form: Liquid
Other means of identification: (EB SOLVENT) R07010
Relevant identified uses of the substance or mixture: Solvent

Details of the supplier of the safety data sheet

Eaton Chemical, Inc.
4124 NW Riverside Street Riverside, MO 64150
Phone: (816) 741-7985
Fax: (816) 741-0405
Email: custserv@eatonchemical.com

Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

Section 2 – Hazards Identification

Classification

Flammable liquid (Category 4)
Acute toxicity, Inhalation (Category 4)
Serious eye damage/irritation (Category 2A)
Skin corrosion/irritation (Category 2)
Aspiration hazard (Category 1)
Pictogram



Signal Word

DANGER!

Hazard Statements

Combustible liquid.
Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation
May be fatal if swallowed and enters airways.

Precautionary Statements – Prevention

Keep away from open flames/hot surfaces- No smoking.
Wear protective gloves/protective clothing/eye protection/face protection
Wash exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.

Precautionary Statements – Response

In case of fire: Consider carbon dioxide, dry chemical, dry sand or alcohol resistant foam to extinguish.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation occurs
IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash skin with plenty of soap and water. If irritation occurs get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER/doctor if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do not induce vomiting.

Precautionary Statements – Storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section 3 –Composition/Information on ingredients

Mixture

Name	CAS NO.	%
2-Butoxyethanol	111-76-2	100

Any concentration shown as a range is to protect confidentiality or is due to process variation.

Section 4 – First Aid Measures

First Aid Measures

Inhalation: Remove to fresh air. If breathing stops, provide artificial respiration. If symptoms persist, call a physician.
Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
Ingestion: Rinse mouth. Call a POISON CENTER or doctor/physician. Immediate medical attention required.
Skin Contact: Remove contaminated clothing, wash with plenty of water. If skin irritation persists, call a physician.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms

May cause serious eye irritation.
Causes skin irritation.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians: Treat symptomatically.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media
Alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media: High volume water jet.

Specific Hazards Arising from the Chemical
Forms peroxides of unknown stability.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH approved and full protective gear.

Section 6 –Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe area.

Methods and Material for Containment and Cleaning Up
Methods for Containment: Prevent further leakage or spillage if safe to do so. Contain spillage.

Methods for Cleaning Up: Collect with an electrically protected vacuum or by wet-brushing and place in container for disposal. Keep in suitable, closed containers for disposal.

Section 7 – Handling & Storage

Precautions for Safe Handling

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.

Section 8 – Exposure Controls/ Personal Protection

Exposure Guidelines:

Chemical Name	CAS #	ACGIH TLV	OSHA PEL	NIOSH TWA
2-Butoxyethanol	111-76-2	TWA: 20 ppm	TWA: 50 ppm 240 mg/m^3	No data available

Engineering Controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Respiratory Protection: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Eye Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Skin Protection: Prevent contact with shoes and clothing; use rubber apron and overshoes.
Other Protective Equipment: Eye wash stations and emergency showers should be available. The type and degree of personal protective equipment appropriate will depend on the specific work operation. Inspect and replace personal protective equipment at regular intervals; use professional care in their selection, use and care.

Section 9 – Physical & Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State	Liquid
Color	Colorless

Property	**Values**
pH	No data available
Melting Point/Freezing Point	-75 º C (-103 º F)
Boiling Point/Boiling Range	171 º C (339.8 º F)
Flash Point	67º C (152.6º F) TCC
Evaporation Rate	0.1
Flammability (Solid, Gas)	n/a-liquid
Upper Flammable Limits	No data available
Lower Flammable Limits	No data available
Vapor Pressure	1.17 hPa (25 º C)
Vapor Density	4
Specific Gravity	0.90
Water Solubility	900 g/l (25 º C)
Solubility in Other Solvents	No data available
Partition Coefficient	Pow: 6.46 log Pow: 0.81
Autoignition Temperature	No data available
Decomposition Temperature	124.7 o C (DSC) 21.7 J/g Weak exotherm
Kinematic Viscosity	3.642 mm2/s (20 º C)
Dynamic Viscosity	3.3 mPa.s (20 º C)
Explosive Properties	Not an Explosive
Oxidizing Properties	No data available
Odor	Mild sweet ester
Odor Threshold	0.48 ppm

Section 10 – Stability & Reactivity

Reactivity
Not reactive under normal conditions.
Chemical Stability
Stable under recommended storage conditions.
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 - Toxicological information

Information on Likely Routes of Exposure
Product Information
Inhalation: None known.
Eye Contact: Causes eye irritation
Skin Contact: Causes skin irritation.
Ingestion: Harmful if swallowed. May be fatal if swallowed and enters airways.

Chemical Name	CAS #	Oral LD50	Dermal LD50	Inhalation LC50
2-Butoxyethanol	111-76-2	1300 mg/kg (Rat)	>2000 mg/kg (Rat)	>4.9 mg/l 3 h (Rat)

Chemical Name	2-Butoxyethanol
Skin corrosion/irritation	Moderate irritation
Serious eye damage/irritation	Moderate irritation
Respiratory or skin sensitization	Not a sensitizer
Mutagenicity	negative
Carcinogenicity	Not classified as a human carcinogen.
Reproductive toxicity	Not classified
Specific target organ toxicity-Single exposure	Not classified
Specific target organ toxicity-repeated exposure	Not classified
Aspiration hazard	Aspiration hazard

Section 12 - Ecological information

There is no data available for this product as a whole.

Chemical Name	CAS #	Algae/aquatic plants	Fish	Aquatic invertebrates
2-Butoxyethanol	111-76-2	EC-50 (Algae (Pseudokirchneriella subcapitata), 72 h): 1,840 mg/l	LC-50 (Oncorhynchus mykiss, 96 h): 1,474 mg/l	EC-50 (Water Flea, 48 h): 1,550 mg/l

Persistence and Degradability No data available
Bioaccumulation No data available
Mobility No data available

Section 13 - Disposal considerations

WASTE DISPOSAL METHOD

Dispose of contents/container to an approved waste treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section 14 - Transport information

DOT Proper Shipping Description:

Non-Bulk: Not regulated as a dangerous goods.

Bulk: NA1993, combustible liquid, N.O.S., (2-butoxyethanol), combustible liquid, PGIII.

Section 15 - Regulatory information

SARA Title III Section 311/312 (40CFR370): Fire, Acute and chronic health hazard.

SARA Title III Section 313 (40CFR372): This product contains a toxic chemical subject to the reporting requirements of section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372

Chemical	CAS #	Weight %	SARA 313 Threshold Values %
2-Butoxyethanol	111-76-2	100	1.0

RCRA Status(40CFR261.33): Not listed

TSCA Inventory Status: Included

OSHA/NTP/IARC Carcinogen Status: Not listed

Canadian DSL Status: Listed

Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity: This material is not known to contain a reportable chemical currently listed as carcinogens or reproductive toxins.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-Butoxyethanol	X	X	X

Section 16 - Other information

HMIS ratings: Health: 2* Flammability: 2 Reactivity: 0

Indication of changes: Revision – 2 Revised sections 13 and 15.

Date Sheet Prepared: 08/10/2020

Other information: Author – EHS Administrator

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The information herein is presented in good faith and believed to be correct as of the date hereof. However, the manufacturer makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representations or warranty's, either express or implied of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made hereunder. The manufacturer shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon information contained herein.

END OF SDS