



Material Safety Data Sheet

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Section 1. Chemical product and company identification

Prepared For

Prepared by

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IN CASE OF EMERGENCY (HEALTH OR SPILLS):

CHEMTREC (US and Canada) (800) 424-9300

Product no. : 16003

Product - Class : Log Pre-Treatment

Customer Part Number:

Customer ShipTo ID:

Section 2. Composition, Information on Ingredients

Name	CAS #	% by weight	Vapor pressure	Exposure Limits (ACGIH-TLV/OSHA-PEL)
2-butoxyethanol	111-76-2	1 - 5	0.09 kPa (0.7 mm Hg) (at 20°C)	ACGIH TLV (United States). Skin TWA: 20 ppm 8 hour(s). TWA: 121 mg/m ³ 8 hour(s). OSHA PEL (United States). Skin TWA: 50 ppm 8 hour(s).
glycol ethers	1 - 5	Not available.	ACGIH TLV (United States). Skin TWA: 5 ppm 8 hour(s).

Section 3. Hazards identification

Emergency overview : WARNING!

Effects of Overexposure : HARMFUL IF ABSORBED THROUGH SKIN.
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: CENTRAL NERVOUS SYSTEM.
MAY BE HARMFUL IF INHALED OR SWALLOWED.
MAY CAUSE EYE IRRITATION.
CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: BLOOD, KIDNEYS, LUNGS, REPRODUCTIVE SYSTEM, LIVER, RESPIRATORY TRACT, BONE MARROW.
COMBUSTIBLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FIRE.

Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eyes : Irritating to eyes.

Other effects of eye contact may include : burning, redness,

Skin : Harmful by skin absorption. Severely irritating to the skin.
Other effects of skin contact may include: dermatitis,
Effects due to absorption through skin may include: blood effects, weakness,

Inhalation : Toxic by inhalation. Irritating to respiratory system.
Other effects of inhalation may include: blood effects, headache, kidney damage, liver damage,
weakness,

Ingestion : Toxic if swallowed.
Other effects of ingestion may include : blood effects, CNS effects, kidney damage, liver damage,
vomiting, weakness,

Potential chronic health effects : CARCINOGENIC EFFECTS: None by OSHA standard.
MUTAGENIC EFFECTS: None by OSHA standard.
TERATOGENIC EFFECTS: None by OSHA standard.
Contains material which causes damage to the following organs: central nervous system (CNS).
Contains material which may cause damage to the following organs: blood, kidneys, lungs, the
reproductive system, liver, upper respiratory tract, bone marrow.

Medical conditions aggravated by overexposure: : Not available.

NOTICE: Reports have associated repeated and prolonged OVEREXPOSURE to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents of this package may be harmful or fatal.

See toxicological Information (section 11)

Section 4. First aid measures

Eye Contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Section 5. Fire fighting measures

Flammability of the product : Combustible.

Auto-ignition Temperature : The lowest known value is 244°C (471.2°F) (2-butoxyethanol).

Flash Points : Closed cup: >62°C (143°F). (Tagliabue.)

Flammable limits : The greatest known range is Lower: 1.1% Upper: 10.8% (2-butoxyethanol)

Products of combustion : These products are carbon oxides (CO, CO₂).

Fire Hazards in Presence of Various Substances/Conditions : Slightly flammable to flammable in presence of open flames, sparks and static discharge, of oxidizing materials.
Because of the large amount of water contained in the product, the product might be combustible only after partial or complete evaporation.

Explosion Hazards in Presence of Various Substances/Conditions : Not available.

Fire fighting media and instructions : SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Protective clothing (fire) : Be sure to use an approved/certified respirator or equivalent.

Section 6. Accidental release measures

Spill and Leak : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Do not touch or walk through spilled material. If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Dispose of as in Section 13.

Section 7. Handling and storage

Handling : Do not ingest. Avoid contact with eyes, skin and clothing. Keep container closed when not in use. Use only with adequate ventilation. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Wash thoroughly after handling.

Storage : Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

OTHER PRECAUTIONS: All precautions must be observed. Empty container may retain product residues.

Section 8. Exposure Controls, Personal Protection

Selection of personal protective equipment (PPE) is to be established by performing a PPE hazard assessment. In the U.S.A, OSHA requires completion of a certified PPE hazard assessment as described in 29 CFR 1910.132.

Engineering controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protection

Eyes : Safety glasses.

Body : Synthetic apron.

Respiratory : Wear appropriate respirator when ventilation is inadequate.

Hands : Impervious gloves.

Feet : Not applicable.

Protective clothing (pictograms) :



HYGIENIC PRACTICES: Good personal hygiene practices are required at all times when handling chemicals. These practices include, but are not limited to, washing when safety equipment is removed, at the end of each shift or when going on breaks and especially if contamination occurs.

Section 9. Physical and chemical properties

Physical State and Appearance : Liquid.

Color : Not available.

Odor : Not available.

pH : Not available.

Boiling/condensation point : The lowest known value is 100°C (212°F) (water).

Melting/freezing point : Not available.

Specific Gravity : Weighted average: 0.99 (Water = 1)

Vapor pressure : The highest known value is 2.3 kPa (17.5 mm Hg) (at 20°C) (water).

Vapor density	: Lighter than air
Volatility	: 100% (v/v). (water.) Weighted average: 100% (v/v) 100% (w/w). (water.) Weighted average: 100% (w/w).
Odor threshold	: Not available.
Evaporation rate	: The highest known value is Lower than 1. (water) compared to BUTYL ACETATE
VOC	: 74 (g/l).
Solubility	: Not available.

Section 10. Stability and reactivity

Stability and Reactivity	: The product is stable.
Conditions of instability	: heat, open flame, sparks,
Incompatibility with various substances	: Slightly reactive to reactive with oxidizing agents, metals, acids, alkalis.
Hazardous Reaction Products	: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Hazardous polymerization	: Yes.

Section 11. Toxicological information

2-butoxyethanol	LD50	470 mg/kg	Oral	Rat
	LD50	1230 mg/kg	Oral	Mouse
	LD50	220 mg/kg	Dermal	Rabbit
	LD50	490 mg/kg	Dermal	Rabbit
	LC50	450 ppm (4 hour(s))	Inhalation	Rat

Section 12. Ecological information

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
2-butoxyethanol	Lepomis macrochirus (LC50)	96 hour(s)	1490 mg/l
iodo-propynyl butyl carbamate	Daphnia magna (EC50)	48 hour(s)	0.16 mg/l
	Daphnia magna (EC50)	48 hour(s)	0.956 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.067 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.072 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.1 mg/l
	Pimephales promelas (LC50)	96 hour(s)	0.2 mg/l

Products of degradation	: These products are carbon oxides (CO, CO ₂) and water.
Toxicity of the products of biodegradation	: The products of degradation are as toxic as the product itself.

Section 13. Disposal considerations

Waste information	: The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
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Consult your local or regional authorities.

Section 14. Transport information

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not regulated.	-	-	Not available.		Not available.
TDG Classification	Not available.	Not available.	Not available.	Not available.		Not available.
IMDG Class	Not regulated.	-	-	Not available.		Not available.
IATA-DGR Class	Not regulated.	-	-	Not available.		Not available.

Section 15. Regulatory information

U.S. Federal regulations : All components in this product have been verified as being on the TSCA Inventory.
 (HAPS) Clean air act (CAA) 112 regulated toxic substances: 2-butoxyethanol; glycol ethers

SARA 313

Form R - Reporting requirements	: 2-butoxyethanol glycol ethers	3.00 - 7.00 1.00 - 3.00
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International regulations

International lists : This product contains one or more components that are NOT listed on the CEPA DSL inventory.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	2
Fire hazard		2
Physical Hazard		0
Personal protection		



Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
 Class D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).
 Class D-2A: Material causing other toxic effects (VERY TOXIC).
 Class D-2B: Material causing other toxic effects (TOXIC).

Notice to reader

The absence of a positive finding indicates that we believe, to the best of our knowledge, that the negative is true.

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