

# Safety Data Sheet

## 2-Butoxyethanol

Version 1.4

Revision Date: 04/08/2020

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : 2-Butoxyethanol  
**Use Description** : ESBS-Cleaner for removal of vegetable or animal oil from soiled surfaces.

#### Manufacturer or supplier's details

**Company** : JMN Specialties, Inc.  
**Address** : 1100 Victory Drive  
Westwego, LA 70094  
United States of America

#### Emergency telephone number:

CHEMTEL: Toll Free US & Canada: (800) 255-3924,  
Outside USA +01-813-248-0585.

**Additional Information:** : Product Safety Group  
E-Mail: [sales@jmnspecialties.com](mailto:sales@jmnspecialties.com)  
SDS Requests: 1-504-341-3749  
SDS Requests email: [orders@jmnspecialties.com](mailto:orders@jmnspecialties.com)  
Website: [www.jmnspecialties.com](http://www.jmnspecialties.com)

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 4  
Acute toxicity (Oral) : Category 4  
Acute toxicity (Inhalation) : Category 4  
Acute toxicity (Dermal) : Category 4  
Skin irritation : Category 2  
Eye irritation : Category 2A

#### GHS Label element

Hazard pictograms :



Signal word : Warning

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- Hazard statements : H227 Combustible liquid.  
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.
- Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin 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/ eye protection/ face protection.  
**Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
**Storage:**  
P403 + P235 Store in a well-ventilated place. Keep cool.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

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### Potential Health Effects

#### Carcinogenicity:

##### IARC

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.

##### ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

##### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

##### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Emergency Overview

<b>CAUTION!</b>	
Appearance	liquid
Colour	colourless
Odour	mild, sweet, ester-like, ether-like
Hazard Summary	No information available.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

#### Hazardous components

CAS-No.	Chemical Name	Concentration (%)
111-76-2	2-Butoxy ethanol	90 - 100
107-21-1	Ethylene glycol	0.1 - 1

### SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

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If inhaled	: If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use an extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: High volume water jet
Hazardous combustion products	: Carbon oxides
Specific extinguishing methods	: Use a water spray to cool fully closed containers.
Further information	: For safety reasons in case of fire, cans should be stored separately in closed containments.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.

**NFPA Flammable and Combustible Liquids Classification:**  
Combustible Liquid Class IIIA

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

**MSDS Number: 2-Butoxyethanol 4 / 21**

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Personal precautions, : Use personal protective equipment.

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protective equipment and emergency procedures

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : No smoking.  
Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
111-76-2	2-Butoxyethanol	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m <sup>3</sup>	NIOSH REL
		TWA	50 ppm 240 mg/m <sup>3</sup>	OSHA Z-1
		TWA	25 ppm	OSHA P0

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			120 mg/m <sup>3</sup>	
107-21-1	Ethylene glycol	TLV-C	50 ppm 125 mg/m <sup>3</sup>	OSHA P0
		C	100 mg/m <sup>3</sup>	ACGIH
		C (Aerosol only)	100 mg/m <sup>3</sup>	ACGIH

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
2-Butoxyethanol	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g Creatinine	ACGIH BEI

### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection  
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

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Color	: colorless
Odor	: mild, sweet, ester-like, ether-like
Odor Threshold	: 0.48 ppm
pH	: No data available
Freezing Point (Melting point/freezing point)	: -75 - -74.8 °C (-103 - -102.6 °F)
Boiling Point (Boiling point/boiling range)	: 166 - 173.5 °C (331 - 344.3 °F)
Flash point	: 62 - 70 °C (144 - 158 °F) (1,013 hPa)
Evaporation rate	: 0.153 n-Butyl Acetate
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: 10.6 %(V)
Lower explosion limit	: 1.1 - 1.3 %(V)
Vapor pressure	: 0.599 mmHg @ 20 °C (68 °F)
Relative vapor density	: 4(Air = 1.0)
Relative density	: 0.9005 - 0.904 @ 20 °C (68 °F) Reference substance: (water = 1)
Density	: 7.514 lb/gal @ 20 °C (68 °F)
Bulk density	: No data available
Solubility(ies)	
Water solubility	: 900 g/l completely soluble @ 25 °C (77 °F)
Solubility in other sol-vents	: No data available
Partition coefficient: n-octanol/water	: log Pow: 0.81 @ 25 °C (77 °F)



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Auto-ignition temperature : 230 - 245 °C 1,013 hPa

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Thermal decomposition	: 124.7 °C
Viscosity	
Viscosity, dynamic	: 3.3 - 6.4 mPa.s @ 20 °C (68 °F)
Viscosity, kinematic	: 2.3 - 3.7 mm <sup>2</sup> /s @ 20 - 40 °C (68 - 104 °F)
Surface tension	: 65 mN/m

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No hazards to be specially mentioned.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents Acids Bases Amines Ammonia Acid chlorides
Hazardous decomposition products	: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Aldehydes Ketones Organic acids

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### **Product:**

Acute oral toxicity	: Acute toxicity estimate : 500 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate : 4500 ppm Exposure time: 4 h

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Test atmosphere: gas  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 1,100 mg/kg  
Method: Calculation method

### **Components:**

#### **111-76-2:**

Acute oral toxicity : LD50 (rat): 745 mg/kg  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (rat): 550 ppm  
Exposure time: 4 h  
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (rat): 1,250 mg/kg  
Assessment: The component/mixture is moderately toxic after single contact with skin.

#### **107-21-1:**

Acute oral toxicity : LD50 (rat): 2,000 mg/kg  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (rat, male and female): > 2.5 mg/l  
Exposure time: 6 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (mouse, male and female): > 3,500 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

#### **Product:**

Remarks: Irritating to skin.

### **Components:**

#### **111-76-2:**

Species: rabbit  
Result: Irritating to skin.

**107-21-1:** Species:  
rabbit Exposure  
time: 20 h

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Method: In vivo  
Result: No skin irritation

### Serious eye damage/eye irritation

#### **Product:**

Remarks: Irritating to eyes.

#### **Components:**

##### **111-76-2:**

Species: rabbit  
Result: Irritating to eyes.

##### **107-21-1:**

Species: rabbit  
Result: No eye irritation  
Exposure time: 24 h  
Method: In vivo

### Respiratory or skin sensitization

#### **Components:**

##### **111-76-2:**

Test Type: Maximization test  
Species: guinea pig  
Result: Did not cause sensitization on laboratory animals.

##### **107-21-1:**

Test Type: Maximization Test (GPMT)  
Species: guinea pig  
Result: Did not cause sensitization on laboratory animals.

### Germ cell mutagenicity

#### **Components:**

##### **111-76-2:**

Genotoxicity in vitro : Test Type: Mammalian cell gene mutation assay  
Test species: Chinese hamster ovary (CHO)  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: mouse (male)  
Application Route: Intraperitoneal  
Result: negative

Germ cell mutagenicity-Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

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### 107-21-1:

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Dominant lethal assay  
Test species: rat (male and female)  
Application Route: Oral  
Exposure time: daily  
Dose: 0, 40, 200, 1000 mg/kg  
Result: negative

Germ cell mutagenicity-Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### Carcinogenicity

#### **Components:**

##### 111-76-2:

Species: mouse  
Application Route: Inhalation  
Exposure time: 2 yr  
Activity duration: 6 h  
Frequency of Treatment: 5 days/week  
NOAEL: 125 ppm

Result: Limited evidence of carcinogenic effects with no relevance to humans

Carcinogenicity - As- : Not classifiable as a human carcinogen.

##### 107-21-1:

Species: mouse, (male and female)  
Application Route: Oral  
Exposure time: 24 mths  
Dose: 0, 40, 200, 1000 mg/kg  
Frequency of Treatment: daily  
LOAEL: 1,000 mg/kg

Result: Ambiguous

Carcinogenicity - As- : Not classifiable as a human carcinogen.

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### Reproductive toxicity

#### **Components:**

##### **111-76-2:**

Effects on fertility : Test Type: Two-generation study  
Species: mouse  
Application Route: oral  
Fertility: NOAEL: 720 mg/kg body weight  
Symptoms: Reduced fertility  
Result: Reduced fertility at maternally toxic doses

Effects on fetal development : Test Type: Embryo-fetal development  
Species: rat  
Application Route: Inhalation  
Duration of Single Treatment: 10 d  
Frequency of Treatment: 6 hr/day  
Developmental Toxicity: Lowest observed adverse effect level: 100 ppm  
Result: Developmental toxicity occurred at maternal toxicity dose levels

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.

##### **107-21-1:**

Effects on fertility : Test Type: Three-generation study  
Species: rat, male and female  
Application Route: Oral  
Dose: 0, 40, 200, 1000 mg/kg  
General Toxicity - Parent: NOAEL: > 1,000 mg/kg body weight  
General Toxicity F1: NOAEL: > 1,000 mg/kg body weight  
Result: No reproductive effects.

Effects on foetal development : Species: rabbit  
Application Route: Oral  
Dose: 0, 100, 500, 1000, 2000 mg/kg  
Duration of Single Treatment: 10 d  
General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight  
Teratogenicity: NOAEL: 2,000 mg/kg body weight  
Developmental Toxicity: NOAEL: 2,000 mg/kg body weight  
Result: No teratogenic effects.  
GLP: yes

Species: mouse  
Application Route: inhalation (dust/mist/fume)  
Dose: 0, 60, 400, 1000 ppm

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Duration of Single Treatment: 10 d  
Frequency of Treatment: 6 hr/day  
General Toxicity Maternal: NOAEC: 60 ppm  
Teratogenicity: NOAEC: 60 ppm  
Developmental Toxicity: NOAEC: 60 ppm  
Symptoms: Maternal toxicity, Malformations were observed.  
Result: Teratogenic effects.

Reproductive toxicity - Assessment : Fertility classification not possible from current data.  
Embryotoxicity classification not possible from current data.

### STOT - single exposure

**Product:** No data available

**Components:**

111-76-2: No data available

107-21-1: No data available

### STOT - repeated exposure

**Product:** No data available

**Components:**

**111-76-2:** No data available

### 107-21-1:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Oral	Kidney	May cause damage to organs through prolonged or repeated exposure., The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.	

### Repeated dose toxicity

**Components:**

**111-76-2:**

Species: rat

NOAEL: 30

Application Route: Inhalation

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Exposure time: 14 wk  
Number of exposures: 6 h/d, 5 d/wk

### **107-21-1:**

Species: rat, male NOAEL:  
150 mg/kg Application  
Route: Oral Exposure time:  
12 mths Number of  
exposures: daily  
Dose: 0, 50, 150, 300, 400 mg/kg bw  
Method: OECD Test Guideline 452  
Target Organs: Kidney  
Symptoms: Kidney disorders

Repeated dose toxicity - : Harmful if swallowed.  
Assessment

### **Aspiration toxicity**

#### **Components:**

##### **111-76-2:**

No aspiration toxicity classification

##### **107-21-1:**

No aspiration toxicity classification

### **Further information**

#### **Product:**

Remarks: No data available

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## **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

#### **Components:**

##### **111-76-2:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,474 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: no

Toxicity to daphnia and other aquatic inverte : EC50 (Daphnia magna (Water flea)): 1,800 mg/l  
Exposure time: 48 h



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brates	Test Type: static test Method: OECD Test Guideline 202 GLP: no
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (green algae)): 911 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: no
<b>107-21-1:</b>	
Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	: LC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	: (Pseudokirchneriella subcapitata (Selenastrum capricornutum)): > 100 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test
Toxicity to bacteria	: Toxicity threshold (Pseudomonas putida): > 10,000 mg/l Exposure time: 16 h Test Type: Static Method: DIN 38412

### Persistence and degradability

#### **Components:**

##### **111-76-2:**

Biodegradability	: aerobic Inoculum: Activated sludge, domestic, adaption not specified Result: Readily biodegradable. Biodegradation: 90.4 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: no
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### 107-21-1:

Biodegradability : aerobic  
Inoculum: Activated sludge, domestic, adaption not specified  
Biodegradation: 90 - 100 %  
Exposure time: 10 d  
GLP: yes  
Remarks: Readily biodegradable

### Bio accumulative potential

#### Components:

##### 111-76-2:

Partition coefficient: n-octanol/water : log Pow: 0.83

##### 107-21-1:

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 0.60  
Exposure time: 61 d

Partition coefficient: n-octanol/water : log Pow: -1.36

### Mobility in soil

No data available

### Other adverse effects

No data available

### Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of in accordance with all applicable local,

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state and federal regulations.

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For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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### SECTION 14. TRANSPORT INFORMATION

**IATA (International Air Transport Association):** Not regulated as a dangerous good

**IMDG-Code:** Not regulated as a dangerous good

**DOT (Department of Transportation):** NA1993, Combustible liquid, n.o.s., (2-BUTOXYETHANOL), CBL, III

**Special Notes:** : The flash point for this material is greater than 100 F (38 C). Therefore, in accordance with 49 CFR 173.150(f) non-bulk containers (<450L or <119 gallon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.

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### SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : Combustible Liquid, Toxic by inhalation., Moderate skin irritant, Moderate eye irritant

**WHMIS Classification** : B3: Combustible Liquid  
D1A: Very Toxic Material Causing Immediate and Serious Toxic Effects  
D2A: Very Toxic Material Causing Other Toxic Effects  
D2B: Toxic Material Causing Other Toxic Effects

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

Components	CAS-No.	Component	Calculated product
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		RQ (lbs)	RQ (lbs)
Ethylene glycol	107-21-1	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Fire Hazard  
Acute Health Hazard

**SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

111-76-2      2-Butoxy ethanol      100 %

### Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

107-21-1      Ethylene glycol      0.9999 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

111-76-2      2-Butoxy ethanol      100 %  
107-21-1      Ethylene glycol      0.9999 %

### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### US State Regulations

#### Massachusetts Right To Know

111-76-2      2-Butoxy ethanol      90 - 100 %

#### Pennsylvania Right To Know

111-76-2      2-Butoxy ethanol      90 - 100 %  
107-21-1      Ethylene glycol      0.1 - 1 %

#### New Jersey Right To Know

111-76-2      2-Butoxy ethanol      90 - 100 %

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### California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### The components of this product are reported in the following inventories:

<b>United States TSCA Inventory</b>	:	y (positive listing) (On TSCA Inventory)
<b>Canadian Domestic Substances List (DSL)</b>	:	y (positive listing) (All components of this product are on the Canadian DSL.)
<b>Australia Inventory of Chemical Substances (AICS)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>New Zealand. Inventory of Chemical Substances</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Japan. ENCS - Existing and New Chemical Substances Inventory</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Japan. ISHL - Inventory of Chemical Substances (METI)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Korea. Korean Existing Chemicals Inventory (KECI)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>China. Inventory of Existing Chemical Substances in China (IECSC)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)

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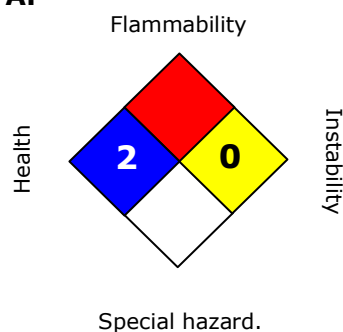
Revision Date: 04/08/2020

<b>Switzerland. New notified substances and declared preparations</b>	:	y (positive listing) (The formulation contains substances listed on the Swiss Inventory)
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### SECTION 16. OTHER INFORMATION

#### Further information

#### NFPA:



#### HMIS III:

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>2</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

# Safety Data Sheet

## 2-Butoxyethanol

Version 1.4

Revision Date: 04/08/2020

<b>Key or legend to abbreviations and acronyms used in the safety data sheet</b>			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50			Lethal Concentration 50%