

**Mexico****Classification**

Name	UN number	IDLH	H	F	R	Special	CAS number	%
Isopropyl alcohol	UN1219	2000 ppm	1	2	0		67-63-0	>1
2-Butoxyethanol	UN2810	700 ppm	3	2	0		111-76-2	>1

**4 . First aid measures**

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Seek medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Seek medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Seek medical attention if symptoms occur.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.
- Notes to physician** : No specific antidote. Medical staff must contact Poison Control Center.

**5 . Fire-fighting measures**

- Flammability of the product** : Non-flammable.
- Products of combustion** : These products are carbon oxides.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : No specific hazard.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**6 . Accidental release measures**

- Personal precautions** : Use suitable protective equipment.
- Environmental precautions and clean-up methods** : Wash small spills to sanitary sewer. Large spills-confine spill, soak up with approved absorbent, shovel product into approved container for disposal.

**7 . Handling and storage**

- Handling** : Do not breathe vapor or mist. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

**8 . Exposure controls/personal protection****United States****Product name**

Isopropyl alcohol

**Exposure limits****ACGIH TLV (United States, 1/2005).**

STEL: 400 ppm 15 minute(s). Form: All forms.

TWA: 200 ppm 8 hour(s). Form: All forms.

**NIOSH REL (United States, 12/2001).**STEL: 1225 mg/m<sup>3</sup> 15 minute(s). Form: All forms.

STEL: 500 ppm 15 minute(s). Form: All forms.

TWA: 980 mg/m<sup>3</sup> 10 hour(s). Form: All forms.

TWA: 400 ppm 10 hour(s). Form: All forms.

2-Butoxyethanol	<p><b>OSHA PEL (United States, 8/1997).</b> TWA: 980 mg/m<sup>3</sup> 8 hour(s). Form: All forms. TWA: 400 ppm 8 hour(s). Form: All forms.</p> <p><b>ACGIH TLV (United States, 1/2005).</b> TWA: 20 ppm 8 hour(s). Form: All forms.</p> <p><b>NIOSH REL (United States, 12/2001). Skin</b> TWA: 24 mg/m<sup>3</sup> 10 hour(s). Form: All forms. TWA: 5 ppm 10 hour(s). Form: All forms</p> <p><b>OSHA PEL (United States, 8/1997). Skin</b> TWA: 240 mg/m<sup>3</sup> 8 hour(s). Form: All forms. TWA: 50 ppm 8 hour(s). Form: All forms.</p>
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<b>Canada</b>	
<b>Product name</b>	<b>Exposure limits</b>
Isopropyl alcohol	<b>ACGIH TLV (United States, 1/2005).</b> STEL: 400 ppm 15 minute(s). Form: All forms. TWA: 200 ppm 8 hour(s). Form: All forms.
2-Butoxyethanol	<b>ACGIH TLV (United States, 1/2005).</b> TWA: 20 ppm 8 hour(s). Form: All forms.

<b>Mexico</b>	
<b>Product name</b>	<b>Exposure limits</b>
Isopropyl alcohol	<b>NOM-010-STPS (Mexico, 9/2000). Skin</b> CCT: 1225 mg/m <sup>3</sup> 15 minute(s). Form: All forms. CCT: 500 ppm 15 minute(s). Form: All forms. CPT: 980 mg/m <sup>3</sup> 8 hour(s). Form: All forms. CPT: 400 ppm 8 hour(s). Form: All forms.
2-Butoxyethanol	<b>NOM-010-STPS (Mexico, 9/2000). Skin</b> CCT: 360 mg/m <sup>3</sup> 15 minute(s). Form: All forms. CCT: 75 ppm 15 minute(s). Form: All forms. CPT: 120 mg/m <sup>3</sup> 8 hour(s). Form: All forms. CPT: 26 ppm 8 hour(s). Form: All forms

<b>Engineering measures</b>	: Use only with adequate ventilation.
<b>Personal protection</b>	
<b>Eyes</b>	: Safety glasses.
<b>Skin</b>	: Lab coat.
<b>Respiratory</b>	: A respirator is not needed under normal and intended conditions of use.
<b>Hands</b>	: Natural rubber (latex). Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.
<b>HMIS Code/Personal protective equipment</b>	: B
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

## 9 . Physical and chemical properties

<b>Physical state</b>	: Liquid.
<b>pH</b>	: Neutral.
<b>Boiling/condensation point</b>	: Weighted average: 101.56°C (214.8°F)
<b>Melting/freezing point</b>	: Weighted average: -6.14°C (20.9°F)
<b>Critical temperature</b>	: The lowest known value is 367.9°C (694.2°F) (2-Butoxyethanol).
<b>Relative density</b>	: Weighted average: 1 (Water = 1)
<b>Vapor pressure</b>	: Weighted average: 2.38 kPa (17.85 mm Hg) (at 20°C)
<b>Vapor density</b>	: Weighted average: 0.8 (Air = 1)
<b>Evaporation rate</b>	: Weighted average: 0.4 compared with Butyl acetate.
<b>Solubility</b>	: Miscible in water.

## 10 . Stability and reactivity

<b>Stability and reactivity</b>	: The product is stable.
<b>Incompatibility with various substances</b>	: Reactive with oxidizing materials, acids and alkalis.
<b>Hazardous polymerization</b>	: Will not occur.
<b>Conditions of reactivity</b>	: Not applicable.

## 11 . Disposal considerations

<b>Waste disposal</b>	: Dispose material in accordance with all local, state, and federal regulations.
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## 12 . Transport information

### Regulatory information

UN/ IMDG/IATA DOT/TDG : Not regulated.

## 13 . Regulatory information

### United States

<b>HCS Classification</b>	: Irritating material
<b>U.S. Federal regulations</b>	: TSCA : All components listed.
	SARA 302/304/311/312 extremely hazardous substances: No products were found.
	SARA 302/304 emergency planning and notification: No products were found.
	SARA 302/304/311/312 hazardous chemicals: Isopropyl alcohol; 2-Butoxyethanol
	SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Isopropyl alcohol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; 2-Butoxyethanol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard
	Clean Water Act (CWA) 307: No products were found.
	Clean Water Act (CWA) 311: Sodium hydroxide
	Clean Air Act (CAA) 112 accidental release prevention: No products were found.
	Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
	Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

### SARA 313

	<b>Product name</b>	<b>CAS number</b>	<b>Concentration</b>
<b>Form R - Reporting requirements</b>	: Isopropyl alcohol	67-63-0	>1
	: 2-Butoxyethanol	111-76-2	>1

**Supplier notification** : Isopropyl alcohol 67-63-0 >1  
2-Butoxyethanol 111-76-2 >1

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

**State regulations** : Pennsylvania RTK: Isopropyl alcohol: (environmental hazard, generic environmental hazard); 2-Butoxyethanol: (environmental hazard, generic environmental hazard); Sodium hydroxide: (environmental hazard, generic environmental hazard)  
Massachusetts RTK: Isopropyl alcohol; 2-Butoxyethanol; Sodium hydroxide; Glycine, n,n-bis(carboxymethyl)-, trisodium salt  
New Jersey: Isopropyl alcohol; 2-Butoxyethanol; Sodium hydroxide

California prop. 65: No products were found.

## Canada

**WHMIS (Canada)** : Class D-2B: Material causing other toxic effects (Toxic).



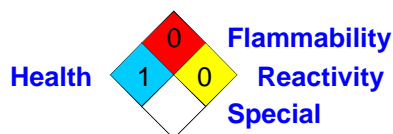
CEPA DSL: All components listed.

CEPA NDSL: Glycine, n,n'-1,2-ethanediylbis-, disodium salt

This product has been classified in accordance with the hazard criteria of the Canadian CPR, the United States OSHA and the Mexican NOM -018-STPS-2000. This MSDS contains all the information required by the CPR, OSHA and NOM -018-STPS-2000.

## Mexico

**Classification** :



### HAZARD RATINGS

4- Extreme  
3- Serious  
2- Moderate  
1- Slight  
0- Minimal

**International lists** : This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

## 14 . Other information

**References** : - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994.

**Date of issue** : 08/15/2006

**Version** : 1

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.