



Quality System Certified to ISO 9001:2008

SAI Global File #004008

Burlington, Ontario, Canada

ISOPROPYL ALCOHOL WIPE

824-WIPES

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Name:** Isopropyl Alcohol Wipe

**SDS Code:** 824-Wipes

**Related Part #** 824-WX25, 824-WX50, 824-WX500

### Recommended Use and Restriction on Use

**Use:** Cleaning wipes

**Uses Advised Against:** Not for use on monitor screens or glass with anti-glare coatings

### Details of Manufacturer or Importer

#### Manufacturer

MG Chemicals  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA

MG Chemicals (Head Office)  
9347-193 Street  
Surrey, British Columbia V4N 4E7  
CANADA

**☎** +1-800-340-0772  
**FAX** +1-800-340-0773  
**E-MAIL** [support@mgchemicals.com](mailto:support@mgchemicals.com)  
**WEB** [www.mgchemicals.com](http://www.mgchemicals.com)

**☎** +1-905-331-1396  
**FAX** +1-905-331-2682  
**E-MAIL** [info@mgchemicals.com](mailto:info@mgchemicals.com)

**E-MAIL** (Competent Person): [sds@mgchemicals.com](mailto:sds@mgchemicals.com)

### Emergency Phone Number

**For hazardous material incidents ONLY**—leaks, spills, fires, exposures or accidents  
USA or CANADA: Call CHEMTREC ☎: **+1-800-424-9300**



**For emergencies involving dangerous goods;** Collect 24/7  
CANADA: Call CANUTEC ☎: **+1-613-996-6666** or **\*666** on cellular phones

**I SOPROPYL ALCOHOL WIPE****824-WIPES****Section 2: Hazard(s) Identification****Classification of Hazardous Chemical****GHS Categories**

Criteria	Category	Signal Word	Pictograms
Flammable Liquid	2	Danger	Flame
Eye irritation	2A	Warning	Exclamation
Specific Target Organ Toxicity	3	Warning	Exclamation

*Note:* The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity). Severity categories rankings do not allow comparisons between classes.

**Label Elements**

Signal Word	<b>DANGER</b>
Pictograms	<b>Hazard Statements</b>
	H225: Highly flammable liquid and vapor
	H319: Causes serious eye irritation H336: May cause drowsiness or dizziness
Prevention	<b>Precautionary Statements</b>
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261	Avoid breathing vapors.
P271	Use only outdoors or in well-ventilated area.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/eye protection.

*Section continued on the next page*

**I SOPROPYL ALCOHOL WIPE****824-WIPES***Continued ...*

Response	Precautionary Statements
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P304 + P340, P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.
P302 + P353	IF ON SKIN: Rinse skin with water.
Storage	Precautionary Statements
P403 + P235	Store in well-ventilated place. Keep cool.
Disposal	Precautionary Statements
P501	Dispose of contents/container in accordance to local/regional/international regulations.

**Other Hazards**

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Defats skin	Repeated exposure may cause skin dryness or cracking.	None	None

**Section 3: Hazardous Ingredients**

CAS #	Chemical Name	% (weight)
67-63-0	propan-2-ol <sup>a)</sup>	99.7%

a) Commonly known as isopropyl alcohol (IPA)

**I SOPROPYL ALCOHOL WIPE****824-WIPES****Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313
<b>Immediate Symptoms</b>	<i>irritation, tearing, redness, pain</i>
<b>Response</b>	Rinse cautiously with water for 20 minutes or more. Remove contact lenses, if present and easy to do. Continue rinsing.  If eye irritation persists: Get medical advice/attention.
<b>IF ON SKIN</b>	P302 + P353
<b>Immediate Symptoms</b>	<i>redness, mild irritation</i>
<b>Response</b>	Rinse skin with water.
<b>IF INHALED</b>	P304 + P340, P312
<b>Immediate Symptoms</b>	<i>cough, dizziness, drowsiness, headaches, weakness</i>
<b>Response</b>	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.  Call a POISON CENTRE/doctor if you feel unwell.
<b>IF SWALLOWED</b>	P301 + P330 + P331
<b>Immediate Symptoms</b>	<i>nausea, dizziness, weakness, headaches</i>
<b>Response</b>	Rinse mouth. Do NOT induce vomiting.

**Section 5: Fire-Fighting Measures**

<b>Response</b>	Use dry chemical, carbon dioxide, water fog, or chemical foam to extinguish. Use water spray to cool containers.
<b>Specific Hazards</b>	Vapors may accumulate in low-lying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> )
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**I SOPROPYL ALCOHOL WIPE****824-WIPES****Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See personal protection equipment in Section 8.
<b>Precautions for Response</b>	Remove or keep away all sources of ignition or extreme heat. Avoid breathing vapors.
<b>Environmental Precautions</b>	Not applicable
<b>Containment</b>	Not applicable
<b>Cleaning</b>	Collect wipes in a sealable, solvent-resistant container.
<b>Disposal Methods</b>	Dispose of spill waste according to Section 13.

**Section 7: Handling and Storage**

<b>Prevention</b>	Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing vapors. Use only outdoors or in a well-ventilated area.
<b>Handling</b>	Wear protective gloves/eye protection. Wash hands thoroughly after handling.
<b>Storage</b>	Store in a well-ventilated area. Keep cool. <b>RECOMMENDATION:</b> Keep in a dry and clean area, away from incompatible substances.

**I SOPROPYL ALCOHOL WIPE****824-WIPES****Section 8: Exposure Controls/Personal Protection****Substances with Occupational Exposure Limit Values**

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
propan-2-ol	ACGIH	200 ppm	400 ppm
	U.S.A. OSHA PEL	400 ppm	Not established
	Canada AB	200 ppm	400 ppm
	Canada BC	200 ppm	400 ppm
	Canada ON	200 ppm	400 ppm
	Canada QC	400 ppm	500 ppm

*Note:* Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS database<sup>2</sup> and from suppliers' SDS were also consulted. Short term exposure limits (STEL) are usually for 15 min and long term permissible exposure limits (PEL) for 8 h.

**Engineering Controls**

**Ventilation** Keep airborne concentrations below exposure limits.

**Personal Protective Equipment**

**Eye protection** Wear appropriate protective eyeglasses or chemical safety goggles.

**RECOMMENDATION:** Use safety glasses with lateral protection (side shields).

**Skin Protection** Wear appropriate protective clothing to prevent skin contact.

**RECOMMENDATION:** Use of protective gloves in butyl rubber, nitrile rubber, or other chemically resistant gloves.

*Section continued on the next page*

**I SOPROPYL ALCOHOL WIPE****824-WIPES****Respiratory Protection**

For over-exposures up to 10 x OEL of mist/vapors/spray, wear respirator such as a half-mask respirator with organic vapor cartridges.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

**RECOMMENDATION:** Consult your local safety supply store to ensure your respirator has filter cartridges appropriate for the ingredients listed in section 3 of this MSDS, and that the respirator is fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

**General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid, in solid mixture	<b>Lower Flammability Limit</b>	2%
<b>Appearance</b>	Colorless	<b>Upper Flammability Limit</b>	12%
<b>Odor</b>	Alcohol like	<b>Vapor Pressure @20 °C</b>	4.2 kPa [32 mmHg]
<b>Odor Threshold</b>	0.44 ppm	<b>Vapor Density</b>	2.1 (Air =1)
<b>pH</b>	Not available	<b>Specific Gravity @25 °C</b>	0.785
<b>Freezing/Melting Point</b>	-88 °C [-126 °F]	<b>Solubility in Water</b>	Fully miscible
<b>Boiling Point</b>	≥81.8 °C [≥179 °F]	<b>Partition Coefficient</b>	Not available
<b>Flash Point <sup>a)</sup></b>	12 °C [54 °F]	<b>Auto-ignition Temperature</b>	425 °C [797 °F]
<b>Evaporation Rate</b>	1.5 (ButAc = 1)	<b>Decomposition Temperature</b>	Not available
<b>Flammability (solid, gas)</b>	Not available	<b>Viscosity @20 °C</b>	2.4 mPa·s [3.1 mm <sup>2</sup> /s]

a) Tag closed cup value

**I SOPROPYL ALCOHOL WIPE****824-WIPES****Section 10: Stability and Reactivity**

<b>Reactivity</b>	At elevated temperatures, may react with aluminum and generate hydrogen gas.
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Avoid Ignition sources, excessive heat, and incompatible substances.
<b>Incompatibilities</b>	Strong oxidizing agents, strong acids, strong bases, halogenated compounds, aluminum at temperatures $\geq 49\text{ }^{\circ}\text{C}$ [ $>120\text{ }^{\circ}\text{F}$ ]
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

**Section 11: Toxicological Information****Routes of Exposure**

Eye Contact, Inhalation, Skin contact, and Ingestion

**Symptoms Summary**

<b>Eyes</b>	Causes serious eye irritation, tearing, redness and pain.
<b>Skin</b>	May cause dry skin, mild irritation or redness.
<b>Inhalation</b>	May cause drowsiness or dizziness. Excessive exposure may cause narcotic effects, weakness, and headaches.
<b>Ingestion</b>	See inhalation symptoms.
<b>Chronic</b>	Prolonged or repeated exposure may defat skin and cause skin dryness and cracking, and local redness and discomfort.

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
propan-2-ol	3 600 mg/kg Rat	12 800 mg/kg Rabbit	16 000 ppm 8 h Rat

*Note:* Toxicity data from the RTECS<sup>2</sup> and ECHA databases were consulted. The data from supplier (M)SDS were also consulted.

*Section continued on the next page*



**I SOPROPYL ALCOHOL WIPE****824-WIPES****Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met. Causes mild skin irritation based on Draize tests on rabbits.
<b>Serious eye damage/irritation</b>	Causes severe eye irritation: propan-2-ol is a severe irritant based on Draize tests on rabbits.
<b>Sensitization</b> (allergic reactions)	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b> (risk of cancer)	Propan-2-ol is not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.
<b>Mutagenicity</b> (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b> (risk to sex functions)	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b> (risk of fetus malformation)	Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	Propan-2-ol can affect the central nervous system by inhalation causing drowsiness or dizziness.
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

**Section 12: Ecological Information**

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<http://echa.europa.eu>), and other reliable sources.

Based on available data, propan-2-ol does not meet the environmental toxicant classification with LC50 and EC50 >100 mg/L.

- Propan-2-ol has a minimal LC50 96 h of 9 640 mg/L for Pimephales promelas (fathead minnow); an EC50 24 h of 5 102 mg/L Daphnia magna (water flea); and an EC50 72 h of 2 000 mg/L Desmodesmus subspicatus (green algae).

**Acute Ecotoxicity**

Available toxicity data does not meet classification thresholds

*Section continued on the next page*

**I SOPROPYL ALCOHOL WIPE****824-WIPES****Chronic Ecotoxicity**

Available toxicity data does not meet classification thresholds

**Biodegradability**

The constituents are volatile.

**Other Effects**

Regulated Volatile Organic Content (VOC) = 100% (785 g/L)

**Section 13: Disposal Information**

Dispose of contents in accordance with all local, regional, national, and international regulations.

**Section 14: Transport Information****Ground****Refer to TDG (Canadian Transportation of Dangerous Goods regulations) and USA DOT 49 CFR (Parts 100 to 185) Regulations.**

Cat. No. 824-WX25, 824-WX50, 824-WX500

**NOT REGULATED** as per  
US.DOT. Special Provision 47  
TDG Special Provision 56NOTE: **Net Fill** of 2 ml per  
packet*FOR REFERENCE ONLY***UN number:** UN3175**Shipping Name:** SOLIDS CONTAINING  
FLAMMABLE LIQUIDS, N.O.S. (isopropanol)**Class:** 4.1**Packing Group:** II**Marine Pollutant:** No*Section continued on the next page*

**I SOPROPYL ALCOHOL WIPE****824-WIPES****Air****Refer to ICAO-IATA regulations.**

Cat. No. 824-WX25, 824-WX50, 824-WX500

**NOT REGULATED** as per  
Special Provisions A46NOTE: **Net Fill** of 2 ml per  
packet*FOR REFERENCE ONLY***UN number:** UN3175**Shipping Name:** SOLIDS CONTAINING FLAMMABLE  
LIQUIDS, N.O.S. (isopropanol)**Class:** 4.1**Packing Group:** II**Marine Pollutant:** No

**Special Provision A46:** Mixtures of solids which are not subject to these Regulations and flammable liquids may be transported under this entry without first applying the classification criteria of Division 4.1, providing there is no free liquid visible at the time the substance is packaged and the packaging must pass a leakproofness test at the Packing Group II level. Small inner packagings consisting of sealed packets or articles containing less than 10 mL of a Packing Group II or III flammable liquid absorbed into a solid material are not subject to these Regulations provided there is no free liquid in the packet or article.

**Sea****Refer to IMDG regulations.**

Cat. No. 824-WX25, 824-WX50, 824-WX500

**NOT REGULATED** as per  
Special Provisions 216NOTE: **Net Fill** of 2 ml per  
packet**UN number:** UN3175**Shipping Name:** SOLIDS CONTAINING  
FLAMMABLE LIQUIDS, N.O.S. (isopropanol)**Class:** 4.1**Packing Group:** II**Marine Pollutant:** No

**Special Provision 216:** Mixtures of solids which are not subject to the provisions of this Code and flammable liquids may be transported under this entry without first applying the classification criteria of class 4.1, provided there is no free liquid visible at the time the substance is loaded or at the time of the packaging or cargo transport unit is closed. Each cargo transport unit shall be leakproof when used as a bulk container. Sealed packets and articles containing less than 10 mL of a packing group II or III flammable liquid absorbed into a solid material are not subject to the provisions of this Code provided there is no free liquid in the packet or article.

**Note:** Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.

# ISOPROPYL ALCOHOL WIPE

# 824-WIPES

## Section 15: Regulatory Information

### Canada

#### Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL.

#### Industry and Science Canada

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

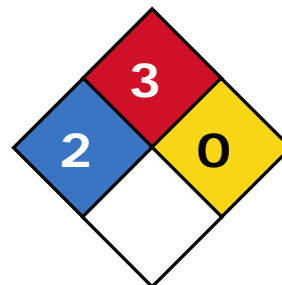
### USA

#### Other Classifications

##### HMIS® RATING

HEALTH:	* 2
FLAMMABILITY:	3
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

##### NFPA® 704 CODES



*Approximate HMIS and NFPA Risk Ratings Legend:*

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

#### CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

#### EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product contains up to ≥99.7% propan-2-ol (CAS # 67-63-0) which is subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

#### TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

#### California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, Sept 2, 2011 revision, USA).

This product does not contain any of the listed substances.

**I SOPROPYL ALCOHOL WIPE****824-WIPES****Europe****RoHS** (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, or PBDE's, and complies with European RoHS regulations.

**WEEE** (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

**Section 16: Other Information****SDS Prepared by** Michel Hachey**Date of Revision** 16 September 2016**Supersedes** 25 May 2015

**Reason for Changes:** Revision to IMDG for Section 14 Transport Information and minor formatting changes in conformity with HCS 2012 and WHMIS 2015.

**Reference**

1) ACGIH 2013 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2013).

2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

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**I SOPROPYL ALCOHOL WIPE****824-WIPES****Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
ECHA	European Chemicals Agency
EU	European Union
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
IARC	International Agency for Research on Cancer
NOELR	No observable effect loading ratio
NTP	National Toxicology Program
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	Time Weighted Average
VOC	Volatile Organic Content

**Technical Queries** Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at [www.mgchemicals.com](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

**Mailing Addresses** *Manufacturing & Support*  
1210 Corporate Drive  
Burlington, Ontario, Canada  
L7L 5R6

*Head Office*  
9347-193rd Street  
Surrey, British Columbia, Canada  
V4N 4E7

**Disclaimer**

This material safety data sheet is provided as an information resource only. *M.G. Chemicals, Ltd.* believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international regulations.

**Prevention:**



Hazard Statements

**WARNING!**

H303 May be harmful if swallowed.  
 H313 May be harmful in contact with skin.  
 H319 Causes serious eye irritation.  
 H333 May be harmful if inhaled.

P280 Wear protective gloves/eye protection/face protection.

P264 Wash thoroughly after handling.

**Response:**

P301 + 312 IF SWALLOWED: Call a POISON CONTROL CENTER or doctor/physician if you feel unwell.

P304+P340+ P312 IF INHALED: Remove Person to fresh air and keep comfortable for breathing. Immediately call a POISON CONTROL CENTER or doctor/physician.

P305 + P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+313 If eye irritation persists get medical advice/attention.

**Storage:**

N/A

**Disposal:**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>CAS Number</u>	<u>Weight %</u>
Sodium Hydrate	1310-73-2	≤ 1
Dodecylbenzen	27176-87-0	≤20
Sodium Metasilicate Penta	6834-92-0	≤ 5
Ethylene Glycol Butyl	111-76-2	≤ 5
Fragrance	Proprietary Mixture	≤ 1
Colorant	Proprietary Mixture	≤ 1

### **SECTION 4:FIRST AID MEASURES**

**Eye Contact:** Flush immediately with large amounts of clean water for at least 15 minutes, Eyelids should be held away from the eyeball to ensure thorough rinsing. If any irritation persists, seek medical attention.

**Skin Contact:** Rinse area with soap and water. Seek medical attention if any redness or irritation persists

**Inhalation:** If breathing is difficult or irritating, move to fresh air immediately. If symptoms persist, get medical attention.

**Ingestion:** Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.

### **SECTION 5: FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Use dry chemical, foam, or carbon dioxide to extinguish fire. Water may be ineffective but should be used to cool fire-exposed containers, structures and to protect personnel. Use water to dilute spills and to flush them away from sources of ignition.

**Fire Fighting Procedures:** No special protective action for fire fighters are anticipated.



Unusual Fire and Explosion: N/A

Combustion Products: N/A

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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Contain large spills with dikes to prevent entry to waterways and sanitary sewers and transfer the material to appropriate containers for reclamation or disposal. Absorb/trap remaining material or small spills with inert material (dirt, sand, industrial absorbent) and then place in chemical waste containers. Flush residual spill area with large amounts of water. Dispose of all clean up materials in accordance with all applicable federal, state, and local health and environmental regulations.

## **SECTION 7: HANDLING AND STORAGE**

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**Handling:** Do not get in eyes, on skin or on clothing. Do not breathe vapor or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use. Keep operating temperatures below ignition temperatures at all times. Chemical resistant splash goggles and chemical resistant gloves are always recommended when using chemicals.

**Storage:** Keep container tightly closed in a cool, dry, well-ventilated area away from heat, source of ignition and incompatibles.  
Do not store below 32 degrees F or above 100 degrees F. Do not store in direct sunlight. Keep away from children.

## **SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

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**Exposure Limits:** Ethylene Glycol Monobutyl 111-76-2

ACGIH	Time weighted average	20 ppm
NIOSH	Recommended exposure limit (REL)	5 ppm
NIOSH	Recommended exposure limit (REL)	24 mg/m <sup>3</sup>
OSHA Z1	Permissible exposure limit	50 ppm
OSHA Z1	Permissible exposure limit	240 mg/m <sup>3</sup>

**Engineering Controls:** Local exhaust ventilation may be necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces.

**Personal Protective Equipment (PPE):**

**Eye Protection:** Wear chemical safety goggles and face shield. Have eye-wash stations available where eye contact can occur.

**Skin Protection:** Avoid prolonged skin contact. Wear gloves impervious to conditions of use. Additional protection may be necessary to prevent skin contact including use of apron. A safety shower should be located in the work area.

**Respiratory Protection:** If exposure limits are exceeded, NIOSH approved respiratory protection should be worn. A NIOSH approved respirator for organic vapors is generally acceptable.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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Flashpoint:	No flash point	Lower Flammability Limit:	No data available
Auto-ignition Temperature:	No data available	Upper Flammability Limit:	No data available
Boiling Point:	≥ 95°C	Volatile Organic Compound:	.5% weight [CARB]
Melting Point:	No data available	Volatile Organic Compound:	5 g/l [SCAQMD 443.1]
Vapor Pressure:	No data available	Evaporation Rate (Water=1):	No data available
Vapor Density (Air = 1):	No data available	Viscosity:	no data
Solubility:	Soluble in water	pH:	12 ± .5
Pour Point:	Not available	Molecular Weight:	Mixture
Molecular Formula:	Mixture	Spec. Grav. / Density:	8.848 lbs. /gal.
Odor/Appearance:	Yellow liquid with mild fruit and ether scent		

**SECTION 10: STABILITY AND REACTIVITY**

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Reactivity:	None
Chemical Stability:	Stable
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	None
Incompatible materials:	Strong acids and oxidizers.
Hazardous Decomposition:	None know.

**SECTION 11: TOXICOLOGICAL INFORMATION**

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Signs and Systems of Exposure: Based on the test data and/or information on the components, this material may produce the following health effects:

Inhalation: Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact: Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact: Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion: Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Target Organ Effects: Allergic Skin Reaction (non-photo induced) in sensitive people. Signs/symptoms may include redness, swelling, blistering, and itching.

Toxicological Data: If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

## Acute Toxicity

Name	Route	Species	Value
Sodium Hydroxide	Oral	Rabbit	LD Lo Rabbit: 500 mg/kg
Sodium Hydroxide	Inhalation	-	No data available
Sodium Hydroxide	Dermal	Rabbit	LD 50 Rabbit: 1,350 mg/kg
Dodecylbenzen	Oral	Rabbit	LD 50: 1407 mg/kg
Dodecylbenzen	Inhalation	-	No data available
Dodecylbenzen	Dermal	-	No data available
Ethelyne Glycol	Oral	Guinea pig	LD 50 1,200 mg/kg
Ethelyne Glycol	Inhalation	Guinea pig	LD 50 >633ppm, 1h.
Ethelyne Glycol	Dermal	Guinea pig	LD 50 >2,000 mg/kg
Sodium MetasilicatePentahyd	Oral	Rat	LD 50 1153 mg/kg
Sodium MetasilicatePentahyd	Inhalation	-	No data available
Sodium MetasilicatePentahyd	Dermal	-	No data available

## Skin Corrosion/Irritation

Name	Route	Species	Value
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## Serious Eye Damage/Irritation

Name	Route	Species	Value
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## Skin Sensitization

Name	Route	Species	Value
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## Respiratory Sensitization

Name	Route	Species	Value
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## Germ Cell Mutagenicity

Name	Route	Species	Value
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## Carcinogenicity

Name	Route	Species	Value
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## Reproductive Toxicity

## Reproductive and/or Developmental Effects

Name	Route	Species	Value
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## Target Organ (s)

## Specific Target Organ Toxicity – Single Exposure

Name	Route	Species	Value
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## Specific Target Organ Toxicity – repeated exposure

Name	Route	Species	Value
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## Aspiration Hazard

Name	Route	Species	Value
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**SECTION 12: ECOLOGICAL INFORMATION**

## Aquatic Toxicity

Acute and Prolonged Toxicity to Fish:

No Data

Acute Toxicity to Aquatic Invertebrates:

No Data

## Environmental Fate and pathways

No Data

**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local, state, and federal regulations.

**SECTION 14: TRANSPORT INFORMATION**

Because this is produced and shipped in several different sizes as well as domestically and internationally, please consult your transportation specialist for the proper shipping name and class.

**SECTION 15: REGULATORY INFORMATION**

## Hazard Categories:

Fire Hazard – No, Pressure Hazard – No, Reactivity Hazard – No, Immediate Hazard – Yes, Delayed Hazard – Yes

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200

**SECTION 16: OTHER INFORMATION**

## NFPA Hazardous Classification

Health: 2      Flammability: 0      Instability: 0      Special Hazard: None

Revision Indicator: SDS Revision # 2 / Issued April 30, 2016

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