

## SAFETY DATA SHEET

Preparation Date: 1/17/2014

Revision Date: 7/30/2018

Revision Number: G3

### 1. IDENTIFICATION

**Product identifier**

**Product code:** PS444  
**Product Name:** BUTYL ALCOHOL, PESTISOLV(R)

**Other means of identification**

**Synonyms:** 1-Butanol  
 1-Butyl alcohol  
 1-Hydroxybutane  
 Alcool butylique (French)  
 Butan-1-ol  
 Butanol  
 Butyl hydroxide  
 Butyric or normal primary butyl alcohol  
 Hemostyp  
 Methylolpropane  
 n-Butan-1-ol  
 n-Butanol  
 n-Butyl alcohol  
 Propylcarbinol  
 Propylmethanol

**CAS #:** 71-36-3  
**RTECS #** EO140000  
**CI#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** Solvent. Chemical intermediate. Stabilizer.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)  
 Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
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Acute toxicity - Inhalation (Gases)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Flammable liquids	Category 3

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Harmful if inhaled  
Causes skin irritation  
Causes serious eye irritation  
May cause respiratory irritation. May cause drowsiness or dizziness  
Causes damage to organs through prolonged or repeated exposure  
Flammable liquid and vapor



#### **Hazards not otherwise classified (HNOC)**

Not Applicable

#### **Other hazards**

May be harmful in contact with skin  
Can burn with an invisible flame

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Wear protective gloves/protective clothing/eye protection/face protection  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting/.../equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Keep cool

#### **Precautionary Statements - Response**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
If skin irritation occurs: Get medical advice/attention  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

**Precautionary Statements - Storage**

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

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Butyl Alcohol	71-36-3	100

### 4. FIRST AID MEASURES

**First aid measures**

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.
- Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
- Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.
- Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

- Symptoms** Irritating to eyes, respiratory system and skin  
Central nervous system effects  
Hearing impairment

**Indication of any immediate medical attention and special treatment needed**

- Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

- Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol-resistant foam. Water spray.
- Unsuitable Extinguishing Media:** Do not use a solid (straight) water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**

- Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide.

**Specific hazards:** Flammable. May be ignited by heat, sparks or flames. Material can burn with invisible flame. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Container explosion may occur under fire conditions or when heated. Fire may produce irritating, corrosive and/or toxic gases.

### **Special Protective Actions for Firefighters**

**Specific Methods:** Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:** Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

### **Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

**Methods for cleaning up** Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use clean non-sparking tools to collect absorbed material. Clean contaminated surface thoroughly.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

#### **Safe Handling Advice**

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

### **Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep away from heat and sources of ignition. Store in a segregated and approved area. Store away from incompatible materials.

**Incompatible Materials:**

Oxidizing agents  
Acids  
Alkali Metals  
Halogens  
Aluminum  
Caustics  
isocyanates

<b>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**Control parameters****National occupational exposure limits****United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Butyl Alcohol	71-36-3	100 ppm TWA 300 mg/m <sup>3</sup> TWA	50 ppm Ceiling 150 mg/m <sup>3</sup> Ceiling	20 ppm TWA	None

**Canada**

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Butyl Alcohol	71-36-3	20 ppm TWA 60 mg/m <sup>3</sup> TWA	15 ppm TWA 30 ppm Ceiling	None	50 ppm Ceiling 152 mg/m <sup>3</sup> Ceiling

**Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Butyl Alcohol	71-36-3	None	50 ppm Ceiling 150 mg/m <sup>3</sup> Ceiling

**Appropriate engineering controls****Engineering measures to reduce exposure:**

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

**Individual protection measures, such as personal protective equipment****Personal Protective Equipment**

**Eye protection:** Goggles Safety glasses with side-shields

**Skin and body protection:** Chemical resistant apron  
Long sleeved clothing  
Gloves

**Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Liquid	<b>Appearance:</b> No information available.	<b>Color:</b> Clear. Colorless.
<b>Odor:</b> Rancid. Sweet. Strong. Characteristic. Mildly alcoholic. Similar to Amyl alcohol.	<b>Taste</b> Dry, burning taste.	<b>Formula:</b> CH <sub>3</sub> (CH <sub>3</sub> ) <sub>3</sub> OH
<b>Molecular/Formula weight (g/mole):</b> 74.12	<b>Flammability:</b> No information available	<b>Flash point (°C):</b> 37
<b>Flashpoint (°C/°F):</b> 37 °C/98 °F	<b>Flash Point Tested according to:</b> Closed cup	<b>Autoignition Temperature (°C/°F):</b> 343 °C/650 °F
<b>Lower Explosion Limit (%):</b> 1.4%	<b>Upper Explosion Limit (%):</b> 11.2%	<b>Melting point/range(°C/°F):</b> -89.8 °C/-129.64 °F
<b>Decomposition temperature(°C/°F):</b> No information available	<b>Boiling point/range(°C/°F):</b> 117 °C/343 °F	<b>Bulk density:</b> No information available
<b>Density (g/cm<sup>3</sup>):</b> No information available	<b>Specific gravity:</b> 0.8-0.81	<b>pH:</b> No information available
<b>Vapor pressure @ 20°C (kPa):</b> No information available	<b>Evaporation rate:</b> 0.46 (butyl acetate = 1)	<b>Vapor density:</b> 2.6
<b>VOC content (g/L):</b> 800	<b>Odor threshold (ppm):</b> 0.83	<b>Partition coefficient (n-octanol/water):</b> 0.88
<b>Viscosity:</b> No information available	<b>Miscibility:</b> Miscible with Ethanol Miscible with Ether Miscible with many organic solvents	<b>Solubility:</b> Soluble in Water Solubility in water: 63.2 g/L @ 25 °C

## 10. STABILITY AND REACTIVITY

### Reactivity

It may react with aluminum at temperatures above 49 degrees C (120 degrees F)

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

**Incompatible Materials:** Oxidizing agents  
Acids  
Alkali Metals  
Halogens  
Aluminum

Caustics  
isocyanates

**Hazardous decomposition products:**

Carbon monoxide. Carbon dioxide. When heated to decomposition it emits acrid smoke and irritating fumes.

**Other Information**

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Principal Routes of Exposure:**

Ingestion. Skin. Eyes. Inhalation.

**Acute Toxicity**

**Component Information**

Butyl Alcohol	
CAS-No.	71-36-3

**LD50/oral/rat** = 700 mg/kg Oral LD50 Rat(LOLI); 790 mg/kg Oral LD50 Rat (RTECS); 4360 mg/kg (RTECS)

**LD50/oral/mouse** = 100 mg/kg (RTECS)

**LD50/dermal/rabbit** = 3400 mg/kg

**LD50/dermal/rat** = No information available

**LC50/inhalation/rat** = >8000 ppm Inhalation LC50 Rat 4 h; 17.7 mg/l 4 hr.

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = 3484 mg/kg Oral LD50 Rabbit (RTECS)

1200 mg/kg Oral LD50 Hamster (RTECS)

1782 mg/kg Oral LD50 Dog (RTECS)

**Product Information**

**LD50/oral/rat =**

**VALUE- Acute Tox Oral = 790 mg/kg**

**LD50/oral/mouse =**

**Value - Acute Tox Oral = 100 mg/kg**

**LD50/dermal/rabbit**

**VALUE-Acute Tox Dermal = 3400 mg/kg**

**LD50/dermal/rat**

**VALUE -Acute Tox Dermal = No information available**

**LC50/inhalation/rat**

**VALUE-Vapor = > 17.7 mg/l (4-hr)**

**VALUE-Gas = 8000 ppm (4-hr)**

**VALUE-Dust/Mist = No information available**

**LC50/Inhalation/mouse**

**VALUE-Vapor = No information available**

**VALUE - Gas = No information available**

**Product code:** PS444

**Product name:** BUTYL ALCOHOL,  
PESTISOLV(R)

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VALUE - Dust/Mist = No information available

**Symptoms**

**Skin Contact:** Contact causes skin irritation. Moderately irritating to the skin. It may be absorbed through the skin. If absorbed through skin it may cause systemic effects with symptoms similar to those of ingestion.

**Eye Contact:** Causes eye irritation. Severe eye irritation. Possible eye damage. No irreversible damage.

**Inhalation** Harmful by inhalation. Irritating to respiratory system. Symptoms may include coughing and wheezing. Can cause dyspnea (shortness of breath and difficulty breathing). May affect respiration (respiratory depression). May cause conjunctival irritation. May cause nausea, vomiting. May cause diarrhea. May cause headache. Inhalation of high concentrations of vapors may cause dizziness or suffocation. May affect behavior/central nervous system (dizziness, somnolence, muscle weakness, ataxia). May cause confusion, delirium, vertigo, giddiness. It may affect the liver. It may affect the blood (changes in serum composition). It may affect the blood (changes in white blood cell count, changes in other cell count). May affect vision (blurred vision). May affect hearing. Possible auditory nerve damage.

**Ingestion** Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause abdominal pain. May cause gastritis. May affect the cardiovascular system (change in heart rate). May affect the cardiovascular system (hypotension). It may affect the liver (fatty liver degeneration). May affect urinary system (kidneys). May affect the blood. May affect respiration (shortness of breath). May cause headache.

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Prolonged or repeated skin contact may cause dermatitis, and dryness and cracking of the skin. Prolonged or repeated inhalation of high concentrations may cause hearing impairment, with auditory nerve damage and vestibular system injury, and severe vertigo (diagnosed as Meniere's disease). Prolonged or repeated inhalation may affect the brain. Prolonged or repeated inhalation may affect the liver. Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated ingestion may affect behavior/central nervous system (somnolence, ataxia, muscle weakness). Prolonged or repeated ingestion may affect the blood (changes in red blood cell count). Prolonged or repeated inhalation may affect the adrenal gland. Prolonged or repeated ingestion may affect the adrenal gland.

**Sensitization:** No information available.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Butyl Alcohol	71-36-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

<b>Reproductive toxicity</b>	No data is available
<b>Reproductive Effects:</b>	No information available
<b>Developmental Effects:</b>	May cause adverse developmental effects based on animal data Possible risk of harm to the unborn child
<b>Teratogenic Effects:</b>	No information on developmental toxicity effects on humans was found There is limited and equivocal evidence that Butyl alcohol is a teratogen in animals It has not been shown to cause teratogenic effects in humans
<b>Specific Target Organ Toxicity</b>	
<b>STOT - single exposure</b>	Respiratory system.
<b>STOT - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure. Skin. Eyes. Ears. central nervous system. kidney. liver.
<b>Target Organs:</b>	Skin. Eyes. Central nervous system. Kidneys. Liver. Ears. Auditory nerve. Respiratory system.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

<b>Ecotoxicity effects:</b>	Aquatic environment.
<i>Butyl Alcohol - 71-36-3</i>	
<b>Freshwater Algae Data:</b>	500 mg/L EC50 Desmodesmus subspicatus 96 h 500 mg/L EC50 Desmodesmus subspicatus 72 h
<b>Freshwater Fish Species Data:</b>	1730 - 1910 mg/L LC50 Pimephales promelas 96 h static 1 1740 mg/L LC50 Pimephales promelas 96 h flow-through 1 100000 - 500000 µg/L LC50 Lepomis macrochirus 96 h static 1 1910000 µg/L LC50 Pimephales promelas 96 h static 1
<b>Water Flea Data:</b>	1983 mg/L EC50 Daphnia magna 48 h 1897 - 2072 mg/L EC50 Daphnia magna 48 h
<b>Persistence and degradability:</b>	Readily biodegradable
<b>Bioaccumulative potential:</b>	Potential for bioconcentration in aquatic organisms is low.
<b>Mobility:</b>	It is expected to have high mobility in soil.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

**Waste from residues / unused products:**  
Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**  
Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Butyl Alcohol	71-36-3	None	None	None	U031 ignitable waste

## 14. TRANSPORT INFORMATION

### DOT

**UN-No:** UN1120  
**Proper Shipping Name:** Butanols  
**Hazard Class:** 3  
**Subsidiary Class:** No information available  
**Packing group:** III  
**Emergency Response Guide Number:** No information available  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions:** No Information available  
**Symbol(s):** [DOT]: (R5) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 5000 pounds (2270 Kilograms).  
**Description:** UN1120,Butanols ,3,,PG III

### TDG (Canada)

**UN-No:** UN1120  
**Proper Shipping Name:** Butanols  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant:** No Information available  
**Description:** BUTANOLS,3,UN1120,PG III

### ADR

**UN-No:** UN1120  
**Proper Shipping Name:** Butanols  
**Hazard Class:** 3  
**Packing Group:** III  
**Subsidiary Risk:** No information available  
**Description:** UN1120 Butanols,3,III

### IMO / IMDG

**UN-No:** UN1120  
**Proper Shipping Name:** Butanols  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant:** No information available  
**EMS:** F-E

### RID

**UN-No:** UN1120  
**Proper Shipping Name:** Butanols  
**Hazard Class:** 3  
**Subsidiary Risk:** 3  
**Packing Group:** III  
**Description:** UN1120 Butanols,3,III,RID

### ICAO

**UN-No:** UN1120  
**Proper Shipping Name:** Butanols  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** Butanols,3,UN1120,PG III

**IATA**

**UN-No:** UN1120  
**Proper Shipping Name:** Butanols  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**ERG Code:** 3L  
**Special Provisions** No information available  
**Description:** UN1120,Butanols,3,PG III

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Butyl Alcohol</i>	71-36-3	Present(ACTIVE)	Present KE-03867	Present	Present (2)-3049	Present	Present	Present 200-751-6

**U.S. Regulations***Butyl Alcohol*

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 1330  
**New Jersey (EHS) List:** 1330 500 lb TPQ  
**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present  
**Pennsylvania RTK:** Environmental hazard  
**Pennsylvania RTK - Environmental Hazard List** Present  
**Minnesota - Hazardous Substance List:** Present  
**New York Release Reporting - List of Hazardous Substances:**  
 5000 lb RQ  
 1 lb RQ  
**Louisiana Reportable Quantity List for Pollutants:** Listed  
**California Directors List of Hazardous Substances:** Present

**FDA - Direct Food Additives**

21 CFR 172.515

**FDA - 21 CFR - Total Food Additives** 172.515, 172.560, 175.105, 175.320, 176.180, 176.200, 176.210, 177.1200, 177.1440, 177.1650, 177.2800, 73.1

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.****Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
<i>Butyl Alcohol</i>	71-36-3	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
<i>Butyl Alcohol</i>	71-36-3	5000 lb final RQ 2270 kg final RQ	None	None	None	1.0 % de minimis concentration

## U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Butyl Alcohol	71-36-3	Not Applicable	Not Applicable

## Canada

### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component  
Butyl Alcohol  
71-36-3 ( 100 )

WHMIS 2015 Hazard Classification  
Flammable liquids - Category 3: H226 Flammable liquid and vapour.; Skin corrosion/irritation - Category 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Specific target organ toxicity - Single exposure - Category 3: H335 May cause respiratory irritation.; Specific target organ toxicity - Single exposure - Category 3: H336 May cause drowsiness or dizziness.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

### WHMIS 1988 Hazard Class

B2 Flammable liquid  
D2B Toxic materials

**Components**  
Butyl Alcohol

WHMIS 1988  
B2,D2B

### Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Butyl Alcohol	1 %

### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Butyl Alcohol	71-36-3	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Butyl Alcohol	71-36-3	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Butyl Alcohol	71-36-3	Not listed

## EU Classification

### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Butyl Alcohol	71-36-3	Flammable liquids - Flam. Liq. 3: H226 Flammable liquid and vapour.; Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Eye Dam. 1: H318 Causes

		serious eye damage.; Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation.; Specific target organ toxicity - Single exposure - STOT SE 3: H336 May cause drowsiness or dizziness.603-004-00-6
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EU - CLP (1272/2008)

**R-phrase(s)**

R10 - Flammable.  
R22 - Harmful if swallowed.  
R41 - Risk of serious damage to eyes.  
R67 - Vapors may cause drowsiness and dizziness.  
R37/38 - Irritating to respiratory system and skin.

**S -phrase(s)**

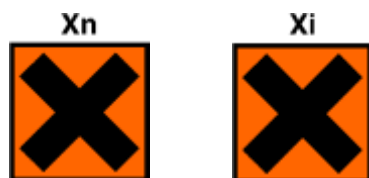
S 2 - Keep out of the reach of children.  
S13 - Keep away from food, drink and animal feedingstuffs.  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S46 - If swallowed, seek medical advice immediately and show this container or label.  
S 7/9 - Keep container tightly closed and in a well-ventilated place.  
S37/39 - Wear suitable gloves and eye/face protection.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Butyl Alcohol	71-36-3	R10 Xn; R22 Xi; R37/38-41 R67	No information	S: (2)-7/9-13-26-37/39-46

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

Xn - Harmful.  
Xi - Irritant.



**16. OTHER INFORMATION**

Preparation Date: 1/17/2014  
Revision Date: 7/30/2018  
Prepared by: Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular

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**End of Safety Data Sheet**