

## SAFETY DATA SHEET

Preparation Date: 9/27/2013

Revision Date: 11/11/2015

Revision Number: G5

### 1. IDENTIFICATION

**Product identifier**

**Product code:** E1424  
**Product Name:** DEHYDRATED ALCOHOL, 200 PROOF, BIOTECHGRADE

**Other means of identification**

**Synonyms:** Absolute ethanol  
 Alcohol  
 Alcohol dehydrated  
 Alcohol, anhydrous  
 Alcool ethylique (French)  
 Absolute Ethanol 200 proof  
 Ethanol  
 Ethyl alcohol anhydrous  
 Ethyl hydrate  
 Ethyl hydroxide  
 Fermentation alcohol  
 Dehydrated Alcohol  
 Ethanol, undenatured 200 proof  
 Ethanol 200 proof

**CAS #:** 64-17-5  
**RTECS #** KQ630000  
**CI#:** Not available

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

**Recommended use:** Solvent. Perfuming agent. In pharmaceuticals. Inks. In organic synthesis. In beverages.  
**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 by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Flammable liquids	Category 2

### Label elements

#### **Danger**

#### **Hazard statements**

Causes serious eye irritation  
 May damage fertility or the unborn child  
 May cause respiratory irritation. May cause drowsiness or dizziness  
 Causes damage to organs through prolonged or repeated exposure  
 Highly flammable liquid and vapor



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

Not Applicable

#### **Other hazards**

Can burn with an invisible flame  
 Causes mild skin irritation

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

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Use only outdoors or in a well-ventilated area  
 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**

*IF exposed or concerned: Get medical advice/attention*

In case of fire: Use CO2, 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.

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If skin irritation occurs: Get medical advice/attention

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.

#### Precautionary Statements - Storage

Store locked up

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

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Ethyl Alcohol 200 proof 64-17-5	64-17-5	100	*

### 4. FIRST AID MEASURES

#### First aid measures

##### General Advice:

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

##### Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothes 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

Causes eye irritation. May cause skin irritation. May cause irritation of respiratory tract. Dyspnea (Difficulty breathing and shortness of breath). Central nervous system effects. Dizziness. Drowsiness. Headache. Ataxia. Staggering gait. Nausea. Vomiting. May cause cardiovascular effects.

#### 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 entry into waterways, sewers, basements or confined areas.

### 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). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

#### **Methods for cleaning up**

Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. 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. Sensitive to light. Store in light-resistant containers. 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. Caustics. isocyanates. Metals. Bases. Acid anhydrides. Acid chlorides.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### National occupational exposure limits

##### United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Ethyl Alcohol 200 proof 64-17-5	1000 ppm TWA 1900 mg/m <sup>3</sup> TWA	1000 ppm TWA 1900 mg/m <sup>3</sup> TWA	1000 ppm STEL	None

##### Canada

Components	Alberta	British Columbia	Ontario	Quebec
Ethyl Alcohol 200 proof 64-17-5	1000 ppm TWA 1880 mg/m <sup>3</sup> TWA	1000 ppm STEL	1000 ppm STEL	1000 ppm TWAEV 1880 mg/m <sup>3</sup> TWAEV

##### Australia and Mexico

Components	Australia	Mexico
Ethyl Alcohol 200 proof 64-17-5	1000 ppm TWA 1880 mg/m <sup>3</sup> TWA	1000 ppm TWA 1900 mg/m <sup>3</sup> TWA

### 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> Mild. Pleasant. Alcoholic. Like wine or whiskey. Ethereal.	<b>Taste</b> Pungent. Burning.	<b>Molecular/Formula weight:</b> 46.07
<b>Formula:</b> CH <sub>3</sub> CH <sub>2</sub> OH	<b>Flammability:</b> No information available	<b>Flash point (°C):</b> 12
<b>Flashpoint (°C/°F):</b> 12-14 °C/53.6-57.2 °F 15.8-18 °C/60.44-64.4 °F	<b>Flash Point Tested according to:</b> Closed cup Open cup	<b>Autoignition Temperature (°C/°F):</b> 363-426 °C/685.4-798.8 °F
<b>Lower Explosion Limit (%):</b> 3.3%	<b>Upper Explosion Limit (%):</b> 19%	<b>pH:</b> No information available
<b>Melting point/range(°C/°F):</b> -114.1-117.3 °C/-173.38-179.14 °F	<b>Boiling point/range(°C/°F):</b> 78-79 °C/172.4-174.2 °F	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Bulk density:</b> No information available	<b>Density (g/cm<sup>3</sup>):</b> No information available	<b>Specific gravity:</b> 0.789 @ 20 °C
<b>Vapor pressure @ 20°C (kPa):</b> 5.7	<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> 1.59
<b>VOC content (g/L):</b> 789	<b>Odor threshold (ppm):</b> 5-10 (recognition) 84 (tolerance)	<b>Partition coefficient (n-octanol/water):</b> -0.31
<b>Viscosity:</b> No information available	<b>Miscibility:</b> Miscible with water Miscible with Acetone Miscible with Ether Miscible with Benzene Miscible with glacial Acetic Acid Miscible with many organic solvents	<b>Solubility:</b> Very soluble in water

## 10. STABILITY AND REACTIVITY

### Reactivity

It can react vigorously, violently or explosively with oxidizers  
When Ethanol comes in contact with Platinum or Sodium, it liberates flammable hydrogen gas  
It can react vigorously or explosively with acid hydrides or acid chlorides  
It reacts with alkali metals to liberate flammable hydrogen gas  
It reacts with acetyl bromide to evolve hydrogen bromide  
It reacts with ammonia + silver nitrate to form silver nitride and silver fulminate  
Ethyl alcohol can react with freshly cut/etched/scratched aluminum with the evolution of heat and release of hydrogen gas. The Ethyl alcohol has to be on the aluminum surface as it is being cut/scratched/etched  
Ethyl Alcohol reacts vigorously with acetyl chloride.  
Ethyl alcohol reacts with silver (I) oxide + ammonia or hydrazine to form silver nitride and silver fulminate  
Ethanol ignites and then explodes on contact with the following compounds: acetic anhydride + sodium hydrosulfate, disulfuric acid + nitric, phosphorus (III) oxide, potassium tert-butoxide + acids

### Chemical stability

**Stability:** Stable under recommended storage conditions

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

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

**Incompatible Materials:** Oxidizing agents. Acids. Alkali Metals. Halogens. Caustics. isocyanates. Metals. Bases. Acid anhydrides. Acid chlorides.

**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

*Ethyl Alcohol 200 proof - 64-17-5*

**LD50/oral/rat** = 7060 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = 3450 mg/kg Oral LD50 Mouse  
**LD50/dermal/rat** = No information available  
**LD50/dermal/rabbit** = No information available  
**LC50/inhalation/rat** = 124.7 mg/L Inhalation LC50 Rat 4 h  
**LC50/inhalation/mouse** = 39000 mg/m<sup>3</sup>4 h  
**Other LD50 or LC50 information** = >60000 ppm Inhalation LC50 Mouse 1 h  
5900 mg/m<sup>3</sup>Inhalation LC50 Rat 6 h  
20000 ppm Inhalation LC50 Rat 10 h  
5560 mg/kg Oral LD50 Guinea Pig  
6300 mg/kg Oral LD50 Rabbit

#### Product Information

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = 7060mg/kg

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = 3450mg/kg

**LD50/dermal/rabbit**  
**VALUE-Acute Tox Dermal** = No information available

**LD50/dermal/rat**  
**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**  
**VALUE-Vapor** = 124.7mg/l (4-hr)  
**VALUE-Gas** = No information available

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VALUE-Dust/Mist = No information available

**LC50/Inhalation/mouse**

VALUE-Vapor = 39 mg/l (4-hr)

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

**Symptoms**

**Skin Contact:** Mildly to moderately irritating to the skin.

**Eye Contact:** Causes serious eye irritation. Causes moderate to severe eye irritation.

**Inhalation** May cause irritation of respiratory tract. Symptoms may include coughing and shortness of breath. May cause nausea and headache. It may affect behavior/central nervous system (ataxia, general anesthetic, drowsiness). May affect respiration (respiratory depression). Inhalation of high concentrations of vapor may cause anesthetic effects. Inhalation of high concentrations of vapors may cause dizziness or suffocation. May affect the brain.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause gastritis. May cause loss of appetite. May cause flushed skin. May affect the cardiovascular system (change in heart rate). May affect the cardiovascular system (hypotension or hypertension, tachycardia, dysrhythmias). It may affect behavior/central nervous system (excitation, mild euphoria, excessive talking, fatigue, headache, dizziness, drowsiness, staggering gait, ataxia, hallucinations, slurred speech, amnesia, confusion, release of inhibitions, aggressive behavior, convulsions, coma). May affect respiration (dyspnea, respiratory depression). It may affect the brain. May affect liver . May affect the blood. May affect the endocrine system. It may affect the spleen. May affect urinary system (kidneys).

**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 ingestion may affect behavior/central nervous system. Prolonged or repeated ingestion may affect metabolism (cause anorexia, weight loss). Prolonged or repeated ingestion may affect the liver (fatty liver degeneration, cirrhosis of the liver. Prolonged or repeated ingestion may affect the cardiovascular system. Prolonged or repeated inhalation may affect the liver.

**Sensitization:** No information available

**Mutagenic Effects:** May affect genetic material  
Experiments with bacteria and/or yeast have shown mutagenic effects

**Carcinogenic effects:** Equivocal tumorigenic agent by Registry of Toxic Effects of Chemical Substances (RTECS) criteria. Confirmed Animal Carcinogen with Unknown Relevance to Humans.

Components	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
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Ethyl Alcohol 200 proof	Group 1 - Monograph 100E [2012] in alcoholic beverages Monograph 96 [2010] in alcoholic beverages	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans	Not listed	Present	Not listed	Not listed
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**ACGIH (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

(In alcoholic beverages)

**Reproductive toxicity**

May damage fertility or the unborn child

**Reproductive Effects:  
Developmental Effects:**

Causes adverse reproductive effects  
May cause harm to the unborn child  
May cause adverse developmental effects

**Teratogenic Effects:**

Causes birth defects (teratogenic effects)

**Specific Target Organ Toxicity**

**STOT - single exposure  
STOT - repeated exposure  
Target Organs:**

Respiratory system. central nervous system.  
liver. central nervous system. Skin. Reproductive System.  
Skin. Liver. Central nervous system. Nervous system. Heart.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:**

Aquatic environment.

*Ethyl Alcohol 200 proof - 64-17-5*

**Freshwater Fish Species Data:**

12.0 - 16.0 mL/L LC50 Oncorhynchus mykiss 96 h static 1  
13400 - 15100 mg/L LC50 Pimephales promelas 96 h flow-through 1  
100 mg/L LC50 Pimephales promelas 96 h static 1

**Water Flea Data:**

9268 - 14221 mg/L LC50 Daphnia magna 48 h  
10800 mg/L EC50 Daphnia magna 24 h  
2 mg/L EC50 Daphnia magna 48 h

**Persistence and degradability:**

No information available

**Bioaccumulative potential:**

No information available

**Mobility:**

No information available

**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	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Ethyl Alcohol 200 proof	None	None	None	None

**14. TRANSPORT INFORMATION****DOT**

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**ERG No:** 127  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available

**TDG (Canada)**

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** No information available

**ADR**

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol (Ethyl alcohol)  
**Hazard Class:** 3  
**Packing Group:** II  
**Subsidiary Risk:** No information available  
**Classification Code:** No information available  
**Description:** No information available  
**CEFIC Tremcard No:** No information available

**IMO / IMDG**

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol (Ethyl alcohol)  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** No information available  
**IMDG Page:** No information available  
**Marine Pollutant:** No information available  
**EMS:** F-E  
**MFAG:** No information available  
**Maximum Quantity:** No information available

**RID**

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol (Ethyl alcohol)  
**Hazard Class:** 3  
**Subsidiary Risk:** 3

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## 14. TRANSPORT INFORMATION

**Packing Group:** II  
**Classification Code:** No information available  
**Description:** No information available

### ICAO

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** No information available

### IATA

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**ERG Code:** 3L  
**Description:** No information available

## 15. REGULATORY INFORMATION

### International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Ethyl Alcohol 200 proof</i>	Present	KE-13217	Present	(2)-202	Present	Present	Present 200-578-6

### U.S. Regulations

*Ethyl Alcohol 200 proof*

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 0844  
**Pennsylvania RTK:** Present  
**Minnesota - Hazardous Substance List:** Present  
**Louisiana Reportable Quantity List for Pollutants:** Present (listed as Volatile Organic Compounds)  
**California Directors List of Hazardous Substances:** Present  
**FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 184.1293

**FDA - 21 CFR - Total Food Additives** 169.175 169.176 169.177 169.181 172.340 172.560 172.580 175.105 176.180 176.200  
177.1200 177.1650 178.1010 184.1293 73.30 73.345 73.615

### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

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

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
<i>Ethyl Alcohol 200 proof</i>	carcinogen (listed as Ethanol in alcoholic beverages)	developmental toxicity (Ethyl alcohol in alcoholic beverages)	Not Listed	Not Listed

### CERCLA/SARA

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Components	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 <i>de minimis</i>
Ethyl Alcohol 200 proof	None	None	None	None	None

#### U.S. TSCA

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Ethyl Alcohol 200 proof	Not Applicable	Not Applicable

#### Canada

##### WHMIS hazard class:

B2 Flammable liquid  
D2B Toxic materials

##### Ethyl Alcohol 200 proof

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 -
Ethyl Alcohol 200 proof	0.1 %

#### Inventory

Components	Canada (DSL)	Canada (NDSL)
Ethyl Alcohol 200 proof	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Ethyl Alcohol 200 proof	Not listed	Not listed

#### EU Classification

##### R-phrase(s)

R11 - Highly flammable.

##### S -phrase(s)

S 7 - Keep container tightly closed.  
S16 - Keep away from sources of ignition - No smoking.

Components	Classification	Concentration Limits:	Safety Phrases
Ethyl Alcohol 200 proof	F; R11	No information	S7 S16

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

**Indication of danger:**  
F - Highly flammable.



## 16. OTHER INFORMATION

C:\Program  
Files\Wercs50\graphic  
s\Nfpablack\nfpa\_230.  
wmf

C:\Program  
Files\Wercs50\graphics\HMIS\23  
0.jpg

**Preparation Date:** 9/27/2013  
**Revision Date:** 11/11/2015  
**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 purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**