

# SAFETY DATA SHEET

Preparation Date: 1/20/2014

Revision Date: 1/20/2014

Revision Number: G1

## 1. IDENTIFICATION

### Product identifier

**Product code:** I1048  
**Product Name:** ISOPROPYL ALCOHOL, REAGENT, ACS

### Other means of identification

**Synonyms:** 1-Methylethanol  
1-Methylethyl alcohol  
2-Hydroxypropane  
2-Propanol  
2-Propyl alcohol  
Alcojel  
Alcool isopropylique (French)  
Alcosolve  
Avantin  
Avantine  
Combi-schutz  
Dimethylcarbinol  
Hartosol  
Imsol A  
Isohol  
Isopropanol  
Lutosol  
n-Propan-2-ol  
Petrohol  
sec-Propyl alcohol  
Spectrar  
Sterisol hand disinfectant  
Takineocol  
Virahol

**CAS #:** 67-63-0  
**RTECS #** NT8050000  
**CI#:** Not available

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

**Recommended use:** Solvent. Preservative. Antiseptic. Disinfectant. In pharmaceuticals.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemicals and Laboratory Products, Inc.  
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:**

Regina Wachenheim (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 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 2

### Label elements

#### **Danger**

#### **Hazard statements**

Causes serious eye irritation

Suspected of damaging fertility or the unborn child

May cause respiratory irritation. May cause drowsiness or dizziness

May cause 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

May be harmful if swallowed

Causes mild skin irritation

### Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Wear eye/face protection  
Do not breathe dust/fume/gas/mist/vapors/spray  
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 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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

### 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
Isopropyl Alcohol 67-63-0	67-63-0	100	*

## 4. FIRST AID MEASURES

### First aid measures

#### General Advice:

Poison information centres 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 irritation develops.

#### Eye Contact:

Flush eye 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

Moderate eye irritation. Mild skin irritation. Central nervous system effects. Dizziness. Drowsiness. Ataxia. Narcosis. Irritability. hallucinations. May cause cardiovascular effects. Cardiac arrhythmias. May affect respiration. Dyspnea (Difficulty breathing and shortness of breath). Respiratory depression. Nausea. Vomiting.

**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. Container explosion may occur under fire conditions or when heated. 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). 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.

**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. Bases. isocyanates. Amines. Ammonia. Halogenated compounds. Halogens. Chlorine. Phosgene. Ethylene oxide. Acetaldehyde. chromium trioxide . Potassium t-butoxide. Aluminum. Oleum.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****National occupational exposure limits****United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Isopropyl Alcohol - 67-63-0	400 ppm TWA 980 mg/m <sup>3</sup> TWA	400 ppm TWA 980 mg/m <sup>3</sup> TWA 500 ppm STEL 1225 mg/m <sup>3</sup> STEL	400 ppm STEL 200 ppm TWA	None

**Canada**

Components	Alberta	British Columbia	Ontario	Quebec
Isopropyl Alcohol - 67-63-0	200 ppm TWA 492 mg/m <sup>3</sup> TWA 400 ppm STEL 984 mg/m <sup>3</sup> STEL	200 ppm TWA 400 ppm STEL	200 ppm TWA	400 ppm TWAEV 985 mg/m <sup>3</sup> TWAEV 500 ppm STEV 1230 mg/m <sup>3</sup> STEV

**Australia and Mexico**

Components	Australia	Mexico
Isopropyl Alcohol 67-63-0	500 ppm STEL 1230 mg/m <sup>3</sup> STEL 400 ppm TWA 983 mg/m <sup>3</sup> TWA	400 ppm TWA 980 mg/m <sup>3</sup> TWA 500 ppm STEL 1225 mg/m <sup>3</sup> STEL

## 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

<b>Eye protection:</b>	Goggles. Safety glasses with side-shields.
<b>Skin and body protection:</b>	Chemical resistant apron. Long sleeved clothing. Gloves.
<b>Respiratory protection:</b>	Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
<b>Hygiene measures:</b>	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> Pleasant. Odor resembling that of a mixture of ethanol and acetone.	<b>Taste</b> Bitter. Burning.	<b>Formula:</b> C3-H8-O
<b>Molecular/Formula weight:</b> 60.1	<b>Flash point (°C):</b> 12	<b>Flashpoint (°C/°F):</b> 12-14 °C/52.6-57.2°F 23.9 °C/75 °F
<b>Flash Point Tested according to:</b> Closed cup Open cup	<b>Lower Explosion Limit (%):</b> 2%	<b>Upper Explosion Limit (%):</b> 12.7%
<b>Autoignition Temperature (°C/°F):</b> 399 °C/750.2 °F	<b>pH:</b> No information available	<b>Melting point/range(°C/°F):</b> -88.5 °C/-127.3 °F
<b>Boiling point/range(°C/°F):</b> 78.3 °C/ °F	<b>Decomposition temperature(°C/°F):</b> No information available	<b>Specific gravity:</b> 0.78505
<b>Density (g/cm3):</b> No information available	<b>Bulk density:</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> 4.4
<b>Evaporation rate:</b> 21 (ether=1) 1.7-2.3 (n-butyl acetate=1)	<b>Vapor density:</b> 2.07	<b>VOC content (g/L):</b> 785
<b>Odor threshold (ppm):</b> 22	<b>Partition coefficient (n-octanol/water):</b> 0.05 - 0.1	<b>Viscosity:</b> No information available
<b>Miscibility:</b> Miscible with water Miscible with Acetone Miscible with alcohol Miscible with Ether Miscible with Benzene Miscible with Chloroform	<b>Solubility:</b> No information available	

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with acids

Reacts with bases

It can react vigorously, violently or explosively with oxidizers

Contact with strong oxidizers may cause fire

Vigorous reaction when mixed with sodium dichromate + sulfuric acid

Explosive reaction can occur when it is mixed with nitroform

Contact with potassium-tert-butoxide can cause ignition

It forms explosive mixtures with trinitromethane, hydrogen peroxide, barium perchlorate

Hydrogen peroxide sharply reduces the autoignition temperature of isopropyl alcohol

After a delay, isopropyl alcohol ignites on contact with dioxygenyl tetrafluoroborate, chromium trioxide, potassium tert-butoxide

It reacts violently with hydrogen-palladium combination, oleum, aluminum triisopropoxide, COCl<sub>2</sub>

In the presence of iron salts, thermal decomposition can occur, which in some cases can become explosive

### Chemical stability

**Stability:** Stable at normal conditions

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

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

**Incompatible Materials:** Oxidizing agents. Acids. Bases. isocyanates. Amines. Ammonia. Halogenated compounds. Halogens. Chlorine. Phosgene. Ethylene oxide. Acetaldehyde. chromium trioxide . Potassium t-butoxide. Aluminum. Oleum.

**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**

*Isopropyl Alcohol - 67-63-0*

**LD50/oral/rat** = 4396 mg/kg Oral LD50 Rat

**LD50/oral/mouse** = 3600 mg/kg (RTECS)

**LD50/dermal/rabbit** = 12800 mg/kg Dermal LD50Rabbit

**LD50/dermal/rat** = 12800 mg/kg

**LC50/inhalation/rat** = 72.6 mg/l 4 h

16000 ppm Inhalation LC50 Rat 8 h

**LC50/inhalation/mouse** = 27.2 mg/l 4 h

**Other LD50 or LC50 information** = LD50 oral 6410 mg/kg [Rabbit]

## Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 4396mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 3600mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = 12800mg/kg

LD50/dermal/rat

VALUE -Acute Tox Dermal = 12800mg/kg

LC50/inhalation/rat

VALUE-Vapor = 72.6mg/l (4-hr)

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = 27.2 mg/l 4 h

## Symptoms

### **Skin Contact:**

May cause skin irritation. Mild skin irritation. It may be absorbed through the skin. If absorbed through skin it may cause systemic effects.

### **Eye Contact:**

Causes eye irritation.

### **Inhalation**

May cause irritation of respiratory tract. It may affect the cardiovascular system (change in pulse rate). 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 behavior/central nervous system (dizziness, loss of coordination, coma). May affect behavior/central nervous system (headache, fatigue, lack of concentration, reduced memory, hallucinations, stupor, unconsciousness). May affect behavior/central nervous system (somnolence).

### **Ingestion**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May cause abdominal pain. May affect the cardiovascular system (change in heart rate). May affect cardiovascular system (hypotension, cardiac arrhythmias). May affect respiration (dyspnea, respiratory depression). May affect urinary system (kidneys). May affect peripheral nervous system (peripheral nerve and sensation - spastic paralysis with or without sensory change). It may affect behavior/central nervous system (central nervous system depression, ataxia, general anesthetic). May affect behavior/central nervous system (dizziness, headache). May affect behavior/central nervous system (somnolence). May affect behavior central nervous system (irritability, hallucinations, coma). Aspiration may lead to pulmonary edema. Aspiration into the lungs can cause chemical pneumonitis.

### **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 defatting, dryness, and cracking of the skin. Chronic exposure may cause central nervous system effects. Prolonged or repeated ingestion may affect the liver. Prolonged or repeated inhalation may affect the peripheral nervous system (weakness, paresthesia - a tingling, pricking, or numbness of the skin (known as the feeling of "pins and needles" generally of the hands and feet (extremities))). Prolonged or repeated inhalation may affect the liver. Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated inhalation may affect the brain. Prolonged or repeated inhalation may affect the blood (changes in serum composition, pigmented or nucleated red blood cells).

**Sensitization:**

No information available

**Mutagenic Effects:**

No information available

**Carcinogenic effects:**

Not classifiable as a human carcinogen. Not classifiable as to its carcinogenicity to humans.

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Isopropyl Alcohol	A4 Not Classifiable as a Human Carcinogen	Group 3 - Monograph 71 [1999] Supplement 7 [1987] Monograph 15 [1977]	Not listed	Not listed	Not listed	Not listed

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A4 - Not Classifiable as a Human Carcinogen

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

Not classifiable as a human carcinogen

**NTP (National Toxicology Program)**

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

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child

**Reproductive Effects:**

No information available

**Developmental Effects:**

Possible risk of harm to the unborn child. May cause adverse developmental effects.

**Teratogenic Effects:**

May cause birth defects (teratogenic effects) based on animal test data. Showed teratogenic effects in animal experiments.

**Specific Target Organ Toxicity****STOT - single exposure**

respiratory system. central nervous system.

**STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure. liver. kidney. Peripheral Nervous System (PNS). central nervous system. spleen. Blood.

**Target Organs:**

Skin. Central nervous system. Peripheral nervous system. Brain. Liver. Kidneys. Blood. Spleen.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity****Ecotoxicity effects:**

Aquatic environment.

Isopropyl Alcohol - 67-63-0

**Freshwater Algae Data:** 1000 mg/L EC50 Desmodesmus subspicatus 72 h  
1000 mg/L EC50 Desmodesmus subspicatus 96 h

**Freshwater Fish Species Data:** 11130 mg/L LC50 Pimephales promelas 96 h static 1  
9640 mg/L LC50 Pimephales promelas 96 h flow-through 1  
1400000 µg/L LC50 Lepomis macrochirus 96 h 1

**Water Flea Data:** 13299 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
Isopropyl Alcohol	None	None	None	None

### 14. TRANSPORT INFORMATION

#### DOT

**UN-No:** UN1219  
**Proper Shipping Name:** Isopropanol  
**Hazard Class:** 3  
**Subsidiary Risk:** Not applicable  
**Packing Group:** II  
**Marine Pollutant:** No data available  
**ERG No:** 129  
**DOT RQ (lbs):** No information available

#### TDG (Canada)

**UN-No:** UN1219  
**Proper Shipping Name:** Isopropanol  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** No information available

#### ADR

**UN-No:** UN1219  
**Proper Shipping Name:** Isopropanol (Isopropyl alcohol)  
**Hazard Class:** 3  
**Packing Group:** II

## 14. TRANSPORT INFORMATION

**Subsidiary Risk:** No information available  
**Classification Code:** No information available  
**Description:** No information available  
**CEFIC Tremcard No:** No information available

### IMO / IMDG

**UN-No:** UN1219  
**Proper Shipping Name:** Isopropanol (Isopropyl 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:** UN1219  
**Proper Shipping Name:** Isopropanol (Isopropyl alcohol)  
**Hazard Class:** 3  
**Subsidiary Risk:** 3  
**Packing Group:** II  
**Classification Code:** No information available  
**Description:** No information available

### ICAO

**UN-No:** UN1219  
**Proper Shipping Name:** Isopropanol  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** No information available

### IATA

**UN-No:** UN1219  
**Proper Shipping Name:** Isopropanol  
**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	Philippines (PICCS)	KOREA KECL	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Isopropyl Alcohol</i>	Present	Present	Present KE- 29363	Present (2)- 207	Present	Present	Present 200-661-7

### U.S. Regulations

*Isopropyl Alcohol*

- Massachusetts RTK: Present
- New Jersey RTK Hazardous Substance List: Present
- New Jersey (EHS) List: Present
- New Jersey - Discharge Prevention - List of Hazardous Substances: Present
- Pennsylvania RTK: Environmental hazard
- Pennsylvania RTK - Environmental Hazard List Present
- Minnesota - Hazardous Substance List: Present
- California Directors List of Hazardous Substances: Present

**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	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Isopropyl Alcohol	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

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>
<i>Isopropyl Alcohol</i>	None	None	None	None	1.0 % de minimis concentration

**U.S. TSCA**

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
<i>Isopropyl Alcohol</i>	Not Applicable	12/15/1986 12/15/1996

**Canada**

**WHMIS hazard class:**

- B2 Flammable liquid
- D2B Toxic materials

**Isopropyl Alcohol**

B2 D2B including 70%

**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 -
Isopropyl Alcohol	1 %

**Inventory**

Components	Canada (DSL)	Canada (NDSL)
Isopropyl Alcohol	Present	Not Listed

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

## EU Classification

### R-phrase(s)

R11 - Highly flammable.

R36 - Irritating to eyes.

R67 - Vapors may cause drowsiness and dizziness.

### S -phrase(s)

S 7 - Keep container tightly closed.

S16 - Keep away from sources of ignition - No smoking.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S24/25 - Avoid contact with skin and eyes.

Components	Classification	Concentration Limits:	Safety Phrases
Isopropyl Alcohol	F; R11 Xi; R36 R67	No information	S2 S7 S16 S24/25 S26

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

### Indication of danger:

F - Highly flammable.

Xi - Irritant.

Xi



F



## 16. OTHER INFORMATION

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>HMIS</b>	<b>Personal Protective Equipment</b>
-------------	-------------	--------------------------------------



Health Hazard	2
Fire Hazard	3
Reactivity	0



See Section 8.

Preparation Date: 1/20/2014  
Revision Date: 1/20/2014  
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 Material Safety Data Sheet**