

# SAFETY DATA SHEET

Preparation Date: 1/16/2018

Revision date 12/17/2019

Revision Number: G1

## 1. IDENTIFICATION

### Product identifier

**Product code:** I-105  
**Product Name:** ISOPROPYL ALCOHOL, 50 PERCENT (V/V) SOLUTION

### Other means of identification

**Synonyms:** 2-Propanol, 50%  
Isopropanol, 50%  
Alcool isopropylique, 50% (French)  
Alcohol isopropílico, 50% (Spanish)

**CAS #:** Mixture  
**RTECS #** NT8050000 (Isopropyl alcohol)  
ZC0110000 (Water)

**CI#:** Not available

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

**Recommended use:** Antiseptic. Disinfectant.  
**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:** Tom Tyner (USA - West Coast)

**Contact Person:** Ibad Tirmiz (USA - East Coast)

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

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

### 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  
 Flammable liquid and vapor

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Can burn with an invisible flame

**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 container and receiving equipment  
 Use explosion-proof equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Keep cool

**Precautionary Statements - Response**

IN CASE OF FIRE: Use dry chemical, water spray, alcohol-resistant foam or CO2 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 attention.  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water  
 IF INHALED: Remove person to fresh air and keep 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 and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Water	7732-18-5	50
Isopropyl Alcohol	67-63-0	50

## 4. FIRST AID MEASURES

### First aid measures

<b>General Advice:</b>	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.
<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.
<b>Eye Contact:</b>	Flush eyes with water for 15 minutes. Get medical attention.
<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
<b>Ingestion:</b>	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

<b>Symptoms</b>	Moderate eye 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
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### 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

**Hazardous combustion products** No information available.

**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:**

No information available

**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**

**Product code:** I-105

**Product name:** ISOPROPYL  
ALCOHOL, 50 PERCENT (V/V)  
SOLUTION

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**Technical Measures/Storage Conditions:**

Keep container tightly closed. Keep in a 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  
 Bases  
 isocyanates  
 Amines  
 Ammonia  
 Halogenated compounds  
 Halogens  
 Chlorine  
 Phosgene  
 Ethylene oxide  
 Acetaldehyde  
 chromium trioxide  
 Potassium t-butoxide  
 Aluminum  
 Oleum

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

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Water	7732-18-5	None	None	None	None
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**

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Water	7732-18-5	None	None	None	None
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	400 ppm STEL	None

**Australia and Mexico**

Component	CAS No	Australia	Mexico
Water	7732-18-5	None	None
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	200 ppm TWA 400 ppm 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
<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

<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>
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<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> No information available.	<b>Formula</b> No information available
<b>Molecular/Formula weight (g/mole):</b> No information available	<b>Flammability (solid, gas)</b> Flammable	<b>Flashpoint (°C/°F):</b> 22-23 °C/72-73.4°F
<b>Flash Point Tested according to:</b> Closed cup	<b>Autoignition Temperature (°C/°F):</b> 399 °C/750.2 °F (Isopropyl Alcohol)	<b>Lower Explosion Limit (%):</b> 2% (Isopropyl Alcohol)
<b>Upper Explosion Limit (%):</b> 12.7 (Isopropyl Alcohol)	<b>Melting point/range(°C/°F):</b> No information available	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> 82.3 °C/180.14°F	<b>Bulk density:</b> No information available	<b>Density (g/cm3):</b> No information available
<b>Specific gravity:</b> 0.9189	<b>pH</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> No information available
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> 22 ppm (Isopropyl Alcohol)	<b>Partition coefficient (n-octanol/water):</b> -0.16	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> Completely soluble	

<b>10. STABILITY AND REACTIVITY</b>
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**Reactivity**

For Isopropyl alcohol:

Reactive with acids

Reacts with strong 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 dioxgenyl tetrafluoborate, chromium trioxide, potassium tert-butoxide

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

Ignition occurs when potassium tert-butoxide reacts with n-propanol

### **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  
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**

**Product code:** I-105

**Product name:** ISOPROPYL  
ALCOHOL, 50 PERCENT (V/V)  
SOLUTION

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## Component Information

Water	
CAS No	7732-18-5
<b>LD50/oral/rat</b> = > 90 mL/kg Oral LD50 Rat <b>LD50/oral/mouse</b> = No information available <b>LD50/dermal/rabbit</b> = No information available <b>LD50/dermal/rat</b> = No information available <b>LC50/inhalation/rat</b> = No information available <b>LC50/inhalation/mouse</b> = No information available <b>Other LD50 or LC50information</b> = No information available	
Isopropyl Alcohol	
CAS No	67-63-0
<b>LD50/oral/rat</b> = 1870 mg/kg Oral LD50 Rat(LOLI; Japan GHS); 4396-5500(EU Chemicals Bureau IUCLID dataset); 5000 mg/kg(RTECS) <b>LD50/oral/mouse</b> = 3600 mg/kg (RTECS) <b>LD50/dermal/rabbit</b> = 12800 mg/kg(RTECS) 4059 mg/kg(LOLI) 12870 mg/kg(EU Chemicals Bureau IUCLID dataset) <b>LD50/dermal/rat</b> = 12800 mg/kg <b>LC50/inhalation/rat</b> = 72.6 mg/l 4 h 16000 ppm Inhalation LC50 Rat 8 h <b>LC50/inhalation/mouse</b> = 27.2 mg/l 4 h <b>Other LD50 or LC50information</b> = LD50 oral 6410 mg/kg [Rabbit]	

## Product Information

**LD50/oral/rat** =  
**Value - Acute Toxicity** = No information available

**LD50/oral/mouse** =  
**Value - Acute Tox** = No information available

**LD50/dermal/rabbit**  
**Value - Acute Toxicity** = No information available

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

**LC50/inhalation/rat**  
**VALUE-Vapor** = No information available  
**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** = No information available

### Symptoms

**Skin Contact:** May cause skin irritation. It may be absorbed through the skin.

**Eye Contact:** Causes serious eye irritation. Moderately irritating to the eyes.



**Inhalation** Irritating to respiratory system. 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 diarrhea. 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 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 inhalation may affect the peripheral nervous system (weakness, peripheral neuropathy with 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 ingestion may affect the liver. 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.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Isopropyl Alcohol	67-63-0	Group 3 - Not classifiable - Monograph 71 [1999] Supplement 7 [1987] Monograph 15 [1977]	A4 Not Classifiable as a Human Carcinogen	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)  
Group 3 - Not classifiable as to its carcinogenicity to humans  
NTP (National Toxicology Program)

**Reproductive toxicity** Suspected of damaging fertility or the unborn child

**Reproductive Effects:** No information available  
**Developmental Effects:** No information available  
**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.  
**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*

**Algae/aquatic plants** EC50: >1000mg/L (96h, Desmodemus subspicatus) EC50: >1000mg/L (72h, Desmodemus subspicatus)

**Fish** LC50: =9640mg/L (96h, Pimephales promelas) LC50: =11130mg/L (96h, Pimephales promelas) LC50: >1400000µg/L (96h, Lepomis macrochirus)

**Crustacea** EC50: =13299mg/L (48h, Daphnia magna)

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility in soil** No information available

**Other adverse effects** 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

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Water	7732-18-5	None	None	None	None
Isopropyl Alcohol	67-63-0	None	None	None	None

**14. TRANSPORT INFORMATION**

DOT

Product code: I-105

Product name: ISOPROPYL ALCOHOL, 50 PERCENT (V/V) SOLUTION

**UN-No:** UN1219  
**Proper Shipping Name:** Isopropanol, solution  
**Hazard Class** 3  
**Subsidiary Class** No information available  
**Packing group:** II  
**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):** No information available  
**Description:** UN1219,Isopropanol (Solution) ,3,,PG II

**TDG (Canada)**

**UN-No:** UN1219  
**Proper Shipping Name:** Isopropanol, solution  
**Hazard Class** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant** No Information available  
**Description:** ISOPROPANOL,3,UN1219,PG II,Solution

**ADR**

**UN Number** UN1219  
**Proper Shipping Name:** Isopropanol (Isopropyl alcohol), solution  
**Transport hazard class(es)** 3  
**Packing group** II  
**Subsidiary Risk:** No information available  
**Description:** UN1219 Isopropanol (Isopropyl alcohol),3,II,Solution

**IMDG**

**UN-No:** UN1219  
**Proper Shipping Name:** Isopropanol (Isopropyl alcohol), solution  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant** No information available  
**EMS:** F-E

**RID**

**UN Number** UN1219  
**Proper Shipping Name:** Isopropanol (Isopropyl alcohol), solution  
**Transport hazard class(es)** 3  
**Subsidiary Risk:** 3  
**Packing group** II  
**Description:** UN1219 Isopropanol (Isopropyl alcohol),3,II,RID,Solution

**ICAO (air)**

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

**IATA**

**UN Number** UN1219

**Proper Shipping Name:** Isopropanol, solution  
**Transport hazard class(es)** 3  
**Subsidiary Risk:** No information available  
**Packing group** II  
**Precautionary Statements - Response** 3L  
**Special Provisions** No information available  
**Description:** UN1219,Isopropanol,3,PG II,Solution

**15. REGULATORY INFORMATION**

**International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Water	7732-18-5	PresentACTIV E	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2
Isopropyl Alcohol	67-63-0	PresentACTIV E	Present KE-29363	Present	Present (2)-207	Present	Present	Present 200-661-7

**U.S. Regulations**

*Isopropyl Alcohol*

- Massachusetts RTK:** Present
- New Jersey RTK Hazardous Substance List:** 1076
- New Jersey (EHS) List:** 1076 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
- California Directors List of Hazardous Substances:** Present

**FDA - Direct Food Additives** 21 CFR 172.515, 21 CFR 173.240, 21 CFR 173.340  
**FDA - 21 CFR - Total Food Additives** 172.385, 172.515, 172.560, 172.665, 172.695, 173.240, 173.340, 175.105, 176.180,  
**- List Sourced from EAFUS** 176.200, 176.210, 177.1200, 177.2800, 178.1010, 73.1, 73.1001, 73.30, 73.315, 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:**

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)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
Isopropyl Alcohol	67-63-0	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Component	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
Water	7732-18-5	None	None	None	None	None
Isopropyl Alcohol	67-63-0	None	None	None	None	1.0 % de minimis concentration

## U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Water	7732-18-5	Not Applicable	Not Applicable
Isopropyl Alcohol	67-63-0	Not Applicable	Not Applicable

## Canada

### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component

Water  
7732-18-5 ( 50 )  
Isopropyl Alcohol  
67-63-0 ( 50 )

WHMIS 2015 Hazard Classification

Not a dangerous product according to HPR classification criteria

Flammable liquids - Category 2: H225 Highly flammable liquid and vapour.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation. (70% aqueous solution)

**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

## DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Water	7732-18-5	Present	Not Listed
Isopropyl Alcohol	67-63-0	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Water	7732-18-5	Not listed
Isopropyl Alcohol	67-63-0	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Water	7732-18-5	Not listed
Isopropyl Alcohol	67-63-0	Not listed

## EU Classification

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

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Water	7732-18-5	
Isopropyl Alcohol	67-63-0	Flammable liquids - Flam. Liq. 2: H225 Highly flammable liquid and vapour.; Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation.; Specific target organ toxicity - Single exposure - STOT SE 3: H336 May cause drowsiness or dizziness.603-117-00-0

### EU - CLP (1272/2008)

### **R**-phrase(s)

R10 - Flammable

**Product code:** I-105

**Product name:** ISOPROPYL  
ALCOHOL, 50 PERCENT (V/V)  
SOLUTION

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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

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Water	7732-18-5		No information	
Isopropyl Alcohol	67-63-0	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:**

Xi - Irritant  
Flammable

Xi



**16. OTHER INFORMATION**

Preparation Date: 1/16/2018  
Revision date 12/17/2019  
Prepared by: Sonia Owen

**Disclaimer:**

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**End of Safety Data Sheet**