

SAFETY DATA SHEET

Preparation Date: 1/21/2014

Revision date 4/24/2019

Revision Number: G3

1. IDENTIFICATION

Product identifier

Product code: I-121
Product Name: ISOPROPYL ALCOHOL, 70 PERCENT

Other means of identification

Synonyms: 2-Propanol, 70%
 Isopropanol, 70%
 Isopropyl Rubbing Alcohol
 Alcool isopropylique, 70% (French)
 Alcohol isopropilico, 70% (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 2

Label elements

Danger

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 irritation develops.
- 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**
- 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 (CO₂). 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.

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**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Isopropyl Alcohol	67-63-0	400 ppm TWA 980 mg/m ³ TWA	400 ppm TWA 980 mg/m ³ TWA 500 ppm STEL 1225 mg/m ³ STEL	400 ppm STEL 200 ppm TWA	None
Water	7732-18-5	None	None	None	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Isopropyl Alcohol	67-63-0	200 ppm TWA 492 mg/m ³ TWA 400 ppm STEL 984 mg/m ³ STEL	200 ppm TWA 400 ppm STEL	400 ppm STEL	None
Water	7732-18-5	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
Isopropyl Alcohol	67-63-0	500 ppm STEL 1230 mg/m ³ STEL 400 ppm TWA 983 mg/m ³ TWA	400 ppm TWA 980 mg/m ³ TWA 500 ppm STEL 1225 mg/m ³ STEL
Water	7732-18-5	None	None

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

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne

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, COCl₂
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. 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

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	6289 mg/kg
ATEmix (dermal)	18382 mg/kg
ATEmix (inhalation-vapor)	103.7 mg/l

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. Aspiration into the lungs can cause chemical pneumonitis. Aspiration may lead to pulmonary edema. 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
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
Water	7732-18-5	Not listed	Not listed	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)

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

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

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
Isopropyl Alcohol
67-63-0 (70)

Water
7732-18-5 (30)

WHMIS 2015 Hazard Classification
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)
Not a dangerous product according to HPR classification criteria

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)
Isopropyl Alcohol	67-63-0	Present	Not Listed
Water	7732-18-5	Present	Not Listed

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

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
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
Water	7732-18-5	

EU - CLP (1272/2008)

R-phrases

R11 - Highly flammable
R36 - Irritating to eyes
R67 - Vapors may cause drowsiness and dizziness.