

# MATERIAL SAFETY DATA SHEET

Isopropyl Alcohol (2-propanol)

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Isopropyl Alcohol (2-propanol)  
Product Code: I7604  
Material Uses:  
Manufacturer: Science Stuff  
1104 Newport Ave  
Austin, TX 78753  
(512) 837-6020  
Entry Date : 6/7/2013  
Print Date: 6/7/2013  
24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	2
Flammability:	3
Reactivity:	0
Hazard Rating: Least Slight Moderate High Extreme 0 1 2 3 4	
NA=Not Applicable NE=Not Established	

## SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	Isopropyl Alcohol (2-propanol)	CAS# 67-63-0	100%	V/V	OSHA TWA 400 ppm, STEL 500 ppm

## SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

## SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Water spray, dry chemical, carbon dioxide, alcohol foam  
Fire / Explosion Hazards: FLAMMABLE! Vapor air mixtures are explosive within flammable limits noted. Vapors may travel to distant ignition source and flash back.  
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing

Isopropyl Alcohol (2-propanol)

to prevent contact with skin and clothing.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Eliminate Ignition Sources. Neutralize with: Soda lime, soda ash. Absorb with vermiculite or other inert material. Place in container.

**SECTION 7 HANDLING AND STORAGE**

Keep away from heat and flame. Do not get in eyes, on skin, on clothing. Use with adequate ventilation.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory Protection: Organic Vapor Cartridge

Ventilation

Local Exhaust

Mechanical

Protective Gloves: NIOSH Approved Gloves

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	-89° C	Percent Volatile by Volume:	100%
Boiling Point:	82° C	Evaporation Rate	1.7
Vapor Pressure:	33 @ 25° C	Evaporation Standard	
Vapor Density:	2.1 (air=1)	Auto Ignition Temp	399° C
Solubility in Water:	Soluble (100%)	Lower Flamm. Limit in Air	2.0%
Appearance /Odors:	Clear colorless liquid/ mild odor	Upper Flamm. Limit in Air	12.0%
Flash Point:	12° C closed up		
Specific Gravity:	.79		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability:	Stable
Conditions to Avoid:	Avoid heat and ignition sources
Materials to Avoid:	Strong oxidizers, metals, strong bases, amines
Hazardous Decomposition Products:	Carbon Oxides
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

**SECTION 11 Toxicological Information**

## Isopropyl Alcohol (2-propanol)

### Toxicity data

United States

Product/ingredient name – Isopropyl Alcohol

Test	Result	Route	Species
LD50	12800 mg/kg	Dermal	Rabbit
LD50	2735 mg/kg	Dermal	Rat
Intraperitoneal			
LD50	1088 mg/kg	Intravenous	Rat
LD50	5045 mg/kg	Oral	Rat
LD50	5000 mg/kg	Oral	Rat
LD50	6410 mg/kg	Oral	Rabbit
LDLo	1537 mg/kg	Oral	Dog
LDLo	3570 mg/kg	Oral	Human
LDLo	5272 mg/kg	Oral	Man
TDL0	800 mg/kg	Oral	Rat
Intraperitoneal			
LC50	16000 ppm	Inhalation Gas	Rat

### Carcinogenicity Classification

Product/ingredient name: Isopropyl Alcohol

ACGIH: A4

IARC: 3

EPA: -

NIOSH: -

NTP: -

OSHA: -

### Specific effects

Carcinogenic effects: No known significant effects or critical hazards

Mutagenic effects: No known significant effects or critical hazards

Teratogenicity/Reproductive toxicity: No known significant effects or critical hazards

## SECTION 12 Ecological Information

### Ecotoxicity data - United States

Product/ingredient name: Isopropyl Alcohol

Result	Species	Exposure
Acute EC50 10000 mg/L	Fish	48 hours
Acute LC50 10400 mg/L	Fish	96 hours
Acute LC50 11130 mg/L	Fish	96 hours
Acute LC50 9640 mg/L	Fish	96 hours
Acute LC50 6550 mg/L	Fish	96 hours
Acute LC50 <1400 mg/L	Fish	96 hours

Result: Acute LC50<1400000 ug/L

Species: Fish – Western mosquitofish–Gambusia affinis – 20 to 30 mm

Exposure: 96 hours

Result: Acute LC50 1400000 to 1950000ug/L Marine water

Species: Crustaceans – Common shrimp, sand shrimp – Crangon crangon

Exposure: 48 hours

Result: Acute LC50 11130000ug/L Fresh water

Species: Pimephales promelas – Juvenile (Fledgling, Hatchling, Weanling) 4 to 8 weeks  
1.1 to 3.1 cm

Exposure: 96 hours

Result: Acute LC50 10400000 to 1060000000 ug/L Fresh water

Species: Fish – Fathead minnow-Pimephales promelas 29 days – 20 mm-0.103 g

Exposure: 96 hours

Result: Acute LC 50 6550000to 7450000 ug/L

Species: Fish – Fathead minnow – Pimephales promelas – 31 days – 17.4 mm – 0.082 g

Exposure: 96 hours

Result: Acute LC50 4200000 ug/L Fresh water

Isopropyl Alcohol (2-propanol)

Species: Fish – Harlequinfish, red rasbora – Rasbora – heteromorpha – 1 to 3 cm  
Exposure: 96 hours

Environmental effects: No known significant effects or critical hazards.  
Other adverse effects: No known significant effects or critical hazards.

**SECTION 13 Disposal Considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**SECTION 14 Transport Information**

DOT Classification: Isopropanol, 3, UN1219, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

**SECTION 15 Regulatory Information**

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Isopropyl Alcohol (67-63-0)	Yes	Yes	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----				
--Canada--				
Ingredient	Korea	DSL	NDSL	Phil.
Isopropyl Alcohol (67-63-0)	Yes	Yes	No	Yes
Water (7732-18-5)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302-		-----SARA 313-----	
	RQ	TPQ	List	Chemical Catg.
Isopropyl Alcohol (67-63-0)	No	No	Yes	No
Water (7732-18-5)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----			
Ingredient	-RCRA-	-TSCA-	
	CERCLA	261.33	8(d)
Isopropyl Alcohol (67-63-0)	No	No	No
Water (7732-18-5)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No  
SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No  
Reactivity: No (Mixture / Liquid)

Australian Hazchem Code: 2[S]2  
Poison Schedule: None allocated.  
WHMIS:  
This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**SECTION 16 Additional Information**

Isopropyl Alcohol (2-propanol)
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Flammability

Health

Reactivity

**Revisions**

**NFPA**

1/16/2013	0	Creation date 3/4/2009 Is
1/16/2013	0.1	Revised to 16 sections LS

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