

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

**Product Name** Isopropyl Alcohol

**Product Code(s)** NO.5

Unable to declare the manufacturer information (corporate policy)

**Recommended Use** For Further Manufacturing Use Only  
Not for Human or Animal Drug Use  
Alcohol for use in histological applications.

**Synonyms** ALCOOL ISOPROPILICO (ITALIAN) \* ALCOOL ISOPROPYLIQUE (FRENCH) \* ALCOJEL \* ALCOSOLVE \* AVANTIN \* AVANTINE \* COMBI-SCHUTZ \* DIMETHYLCARBINOL \* HARTOSOL \* 2-HYDROXYPROPANE \* IMSOL A \* ISOHOL \* ISOPROPANOL (DOT) \* ISOPROPYL ALCOHOL (ACGIH:DOT:OSHA) \* ISO-PROPYLALKOHOL (GERMAN) \* LUTOSOL \* 1-METHYLETHANOL \* 1-METHYLETHYL ALCOHOL \* PETROHOL \* PRO \* 2-PROPANOL \* I-PROPANOL (GERMAN) \* N-PROPAN-2-OL \* SEC-PROPYL ALCOHOL \* 2-PROPYL ALCOHOL \* I-PROPYLALKOHOL(GERMAN) \* SPECTRAR \* STERISOL HAND DISINFECTANT \* TAKINEOCOL \*UN1219 (DOT) \*

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

**Classification** Flammable Liquid 2 Eye Irritant 2 Specific Target Organ Toxicity (Single) 3

**Signal Word** Danger



**Hazard Statements** H225 - Highly flammable liquid and vapor H316 - Causes mild skin irritation H319 - Causes serious eye irritation H371 - May cause damage to organs

**Precautionary Statements** P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking P260 - Do not breathe dust/fume/gas/mist/vapors/spray P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Isopropyl alcohol	200-661-7	Not available	67-63-0	99.9	F;R11 Xi;R36 R67

### 4. FIRST AID MEASURES

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

**Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

**Inhalation** Move to fresh air. If breathing becomes difficult, give oxygen

**Ingestion** Clean mouth with water and afterwards drink plenty of water

**Notes to Physician** Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

**Flammable Properties** Flammable liquid.

**Flash Point** 12 °C / 54 °F

**Suitable Extinguishing Media** Use water spray to cool fire-exposed containers  
. Dry chemical, CO2, appropriate foam.

**Hazardous Combustion Products** Carbon oxides

**Explosion Data**

<b>Sensitivity to Mechanical Impact</b>	Not sensitive
<b>Sensitivity to Static Discharge</b>	Not sensitive

**Protective Equipment and Precautions 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

<b>Personal Precautions</b>	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so
<b>Methods for Cleaning Up</b>	Absorb on sand or vermiculite and place in closed containers for disposal. Use non-sparking tools and equipment. Ventilate area and wash spill site after material pickup is complete.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Keep away from heat,sparks,and open flames.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat,sparks,and open flames.
<b>Incompatible Products</b>	Oxidizing agents. Acids. Anhydrides. Halogens. Aluminium.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	= 400 ppm STEL TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 1225 mg/m <sup>3</sup> (vacated) STEL: 500 ppm	IDLH: 2000 ppm 10% LEL TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 1225 mg/m <sup>3</sup> STEL: 500 ppm

<b>Engineering Measures</b>	Showers Eyewash stations Ventilation systems
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Tightly fitting safety goggles
<b>Skin and Body Protection</b>	Wear protective gloves/clothing
<b>Respiratory Protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear and Colorless
Odor	Rubbing alcohol.
Odor Threshold	No information available
Decomposition Temperature °C	No information available
Freezing Point	No information available
Initial Boiling Point	No information available
Physical State	Liquid
pH	No data available
Flash Point	54 °F / 12 °C
Flammable Properties	Flammable liquid.
Autoignition Temperature	No data available
Boiling Point/Range	180 °F / 82 °C
Melting Point/Range	-89 °C
Flammability Limits in Air(v/v)	<b>Upper</b> 12.7% <b>Lower</b> 2%
Explosive Properties Oxidizing Properties	No information available
Evaporation Rate	No information available
MMHG @ 37.8 C	2.83 (BuAc = 1)
Vapor Density	No data available
Specific Gravity	No data available
Density	0.79
Solubility	2.1
Water Solubility	No information available
Partition Coefficient (n-octanol/water)	Miscible in water
Viscosity	No data available
	No information available

## 10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Incompatible Products	Oxidizing agents. Acids. Anhydrides. Halogens. Aluminium.
Conditions to Avoid	Keep way from heat,sparks,and open flames
Hazardous Decomposition Products	Carbon oxides
Hazardous Polymerization	Hazardous polymerization does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information**                      Irritating to eye, skin and respiratory system. Flammable liquid.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl alcohol	4396 mg/kg ( Rat )	12800 mg/kg ( Rat ) 12870 mg/kg ( Rabbit )	72.6 mg/L ( Rat ) 4 h

### Chronic Toxicity

Chronic Toxicity No known effect based on information supplied

Target Organ Effects Nerves, Kidneys.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Isopropyl alcohol	EC50 > 1000 mg/L 72 h EC50 > 1000 mg/L 96 h	LC50= 61200 mg/L Pimephales promelas 96 h LC50= 94900 mg/L Pimephales promelas 96 h LC50= 9640 mg/L Pimephales promelas 96 h	EC50 = 35390 mg/L 5 min	EC50 = 13299 mg/L 48 h

Chemical Name	Log Pow
Isopropyl alcohol	= 0.05 25 °C

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations

## 14. TRANSPORT INFORMATION

### IATA

UN-No 1219  
Proper Shipping Name Isopropanol  
Hazard Class 3  
Packing Group II

### DOT

Proper Shipping Name Isopropanol  
Hazard Class 3  
UN-No 1219  
Packing Group II

## 15. REGULATORY INFORMATION

**REACH Title VII Restrictions** No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Isopropyl alcohol	Not applicable	Class 2	X	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
Isopropyl alcohol 67-63-0 ( 99.9% )	Not applicable	Not applicable	Not applicable	Not applicable	>= 1.0 %

**International Inventories**

<b>TSCA</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Isopropyl alcohol	67-63-0	99.9	1.0

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	Yes
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Isopropyl alcohol 67-63-0 ( 99.9 )				X

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**CERCLA**

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Isopropyl alcohol	X	X	X		X

**International Regulations**

**Mexico - Grade**

Chemical Name	Carcinogen Status	Exposure Limits
Isopropyl alcohol		Mexico: TWA= 400 ppm Mexico: TWA= 980 mg/m <sup>3</sup> Mexico: STEL= 1225 mg/m <sup>3</sup> Mexico: STEL= 500 ppm

**Canada**

**WHMIS Hazard Class**

D2B Toxic materials  
 B2 Flammable liquid



Chemical Name	NPRI
Isopropyl alcohol	X

**16. OTHER INFORMATION**

Issuing Date 10-SEP-2016

Revision Date

Revision Note

No information available.

**Recommended Restrictions**      No information available

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**