



# SAFETY DATA SHEET

Revision Date **08-Feb-2012**

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

**Product Name** ISOPROPYL ALCOHOL

**Recommended Use** For research use only  
**Registration Number** No information available

### 1.1 Product Identifier

**Catalog Number:** 194006

**Supplier:** MP Biomedicals, LLC  
29525 Fountain Parkway  
Solon, OH 44139  
tel: 440-337-1200

**Emergency Telephone Number:** CHEMTREC: 1-800-424-9300 (1703-527-3887)

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

Aspiration Toxicity	Not classified
Acute Oral Toxicity	Category 5
Acute Dermal Toxicity	Not classified
Acute Inhalation Toxicity - Gas	Not classified
Acute Inhalation Toxicity - Vapors	Not Classified
Acute Inhalation Toxicity - Dusts and Mists	Not classified
Skin Corrosion/Irritation	Not classified
Serious Eye Damage/Eye Irritation	Not classified
Respiratory Sensitization	Not classified
Skin Sensitization	Not classified
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
Specific Target Organ Toxicity (Single Exposure)	Not classified
Specific Target Organ Toxicity (Repeated Exposure)	Not classified
Acute Aquatic Toxicity	Not classified for acute
Chronic Aquatic Toxicity	Not classified chronic
Ozone	Not applicable

### GHS Label elements, including precautionary statements

**Physical Hazards** None

**Risk Code**

R11 - Highly flammable.

R36 - Irritating to eyes.

R67 - Vapors may cause drowsiness and dizziness.

**S-phrase(s)**

S 9 - Keep container in a well-ventilated place.

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

S33 - Take precautionary measures against static discharges

S 7 - Keep container tightly closed.

**Signal Word**

Warning

**Hazard Statements** H303 - May be harmful if swallowed**Precautionary Statements**

P312 - Call a POISON CENTER/doctor/physician if you feel unwell

**NFPA rating:****NFPA Health:** 2**NFPA Flammability:** 3**NFPA Reactivity:** 1**NFPA Special Note:** -**Precautionary Statements****General advice**

Call a POISON CENTER or doctor/physician if you feel unwell.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances****Synonyms:**

Isopropanol, 2-Propanol

**Formula:**

C3-H8-O

**Molecular weight:**

60.09

Chemical Name	EC No.	CAS Number	Weight %	Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration Number
ISOPROPYL ALCOHOL	200-661-7	67-63-0	100	F; R11 Xi; R36 R67	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)	No data available

For the full text of the R-phrases and H Statements mentioned in this Section, see Section 2

**4. FIRST AID MEASURES****4.1 Description of first-aid measures****General Advice**

Immediate medical attention is not required. Show this safety data sheet to the doctor in attendance.

<b>Eye Contact</b>	Call a physician immediately. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Call a physician immediately.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Rinse mouth</b>	Immediate medical attention is not required. Drink plenty of water. Do NOT induce vomiting.
<b>Protection of First-aiders</b>	Use personal protective equipment. Remove all sources of ignition.

#### **4.2 Most important symptoms and effects, both acute and delayed**

**Main Symptoms** No information available

#### **4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

### **5.1 Extinguishing media**

#### **Suitable Extinguishing Media**

Water. Water spray. Carbon dioxide (CO<sub>2</sub>). Dry powder. Foam.

Standard procedure for chemical fires Water mist may be used to cool closed containers

#### **Extinguishing media which must not be used for safety reasons**

No information available

### **5.2 Special hazards arising from the substance or mixture**

No information available.

### **5.3 Advice for firefighters**

Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.. In the event of fire and/or explosion do not breathe fumes.

## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation.

See Section 12 for additional information.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### **6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Ground and bond containers when transferring material.

### **6.4 Reference to other sections**

See Section 12 for additional information

## 7. HANDLING AND STORAGE

### Storage

ROOM TEMPERATURE

#### 7.1 Precautions for safe handling

Ensure adequate ventilation. Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Remove and wash contaminated clothing before re-use. Remove all sources of ignition. Use only in area provided with appropriate exhaust ventilation.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place

Keep container tightly closed. Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep in a dry, cool and well-ventilated place.

#### 7.3 Specific and uses

##### Exposure Scenario

No information available

##### Other Guidelines

No information available

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure Limits

Chemical Name	European Union	The United Kindom	France	Spain	Germany
ISOPROPYL ALCOHOL		400 ppm 999 mg/m <sup>3</sup> 400 ppm		200 ppm 500 mg/m <sup>3</sup>	

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
ISOPROPYL ALCOHOL		200 ppm		200 ppm 500 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 490 mg/m <sup>3</sup>

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
ISOPROPYL ALCOHOL	STEL: 800 ppm STEL: 2000 mg/m <sup>3</sup> TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> 200	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> TWA: 200 ppm STEL: 400 ppm STEL: 1000 mg/m <sup>3</sup>	900 mg/m <sup>3</sup> NDSch: 1200 mg/m <sup>3</sup>	100 ppm 245 mg/m <sup>3</sup>	200 ppm

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

### 8.2 Exposure controls

**Engineering measures:** Ensure adequate ventilation, especially in confined areas..

**Personal protective equipment**

<b>Eye Protection</b>	Tightly fitting safety goggles
<b>Skin and Body Protection</b>	Long sleeved clothing. Impervious butyl rubber gloves. Hydrofluoric acid-resistant and solvent-resistant gloves (gloves made of viton*).. Dry moleskin gloves. Preventive skin protection. Thick fabric gloves. Solvent-resistant gloves (butylrubber).
<b>Hand Protection</b>	Protective gloves
<b>Respiratory Protection</b>	No special protective equipment required.. Wear a positive-pressure supplied-air respirator. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
<b>Other Protective Equipment</b>	Impervious clothing. Long sleeved clothing.
<b>Environmental Exposure Controls</b>	Do not allow material to contaminate ground water system..
<b>Hygiene Measures</b>	When using, do not eat, drink or smoke.. Remove and wash contaminated clothing before re-use.. Provide regular cleaning of equipment, work area and clothing..

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical State:</b>	Liquid.
<b>Appearance and Odor:</b>	Colorless; odor of rubbing alcohol.

#### Physical Property Data

<b>pH Value:</b>	No Data Available.
<b>Flash Point</b>	12.0
<b>Autoignition temperature</b>	No data available
<b>Melting/freezing point</b>	
<b>Boiling point (°C)</b>	No information available.
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No information Available
<b>Water Solubility</b>	No Data Available
<b>Evaporation rete</b>	No data available.
<b>Flammability (solid, gas)</b>	No Data Available
<b>Flammability Limits in Air</b>	
<b>upper flammability limit</b>	No data available
<b>Lower flammability limit</b>	No data available
<b>Density</b>	No data available.
<b>Specific Gravity</b>	No data available.
<b>Decomposition temperature</b>	No data available
<b>Viscosity, kinematic</b>	No data available.
<b>Viscosity, dynamic</b>	No data available.
<b>Explosive properties.</b>	No information available.
<b>Oxidizing Properties</b>	No information available
<b>VOC Content (%)</b>	No information available

### 9.2 Other Safety Information

Other Safety Information

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3

#### Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Not determined

### 10.5 Incompatible Materials

None in particular

### 10.6 Hazardous Decomposition Products

None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<b>Acute Toxicity</b>	Product does not present an acute toxicity hazard based on known or supplied information
<b>Inhalation</b>	No information available.
<b>Eye irritation</b>	No information available.
<b>Acute toxicity</b>	0% of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
ISOPROPYL ALCOHOL 67-63-0	4396 mg/kg ( Rat )	12800 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L ( Rat ) 4 h

<b>Mutagenic effects:</b>	Contains no ingredient listed as a mutagen.
<b>Carcinogenic Effects</b>	None known.
<b>Reproductive Toxicity</b>	None known
<b>Developmental Toxicity</b>	None known.
<b>Aspiration hazard</b>	None known

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Chemical Name	Ecotoxicity - Freshwater Algae - Acute Toxicity Data	Ecotoxicity - Freshwater Fish - Acute Toxicity Data	WFLEA
ISOPROPYL ALCOHOL 67-63-0	EC50 (72 h) 1000 mg/L (Desmodesmus subspicatus) EC50 (96 h) 1000 mg/L (Desmodesmus subspicatus)	= 11130 mg/L LC50 Pimephales promelas 96 h static 1 625 1 Isopropyl alcohol	EC5013299mg/L48h

### 12.2 Persistence and degradability

No data is available on the product itself

### 12.3 Bioaccumulative potential

No information available

Chemical Name	Log Pow
ISOPROPYL ALCOHOL 67-63-0	0.05

### 12.4 Mobility in soil

No information available

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors

## 13. DISPOSAL CONSIDERATIONS

**Waste from Residues/Unused Products** Dispose of in accordance with local regulations

**Contaminated Packaging** Clean container with water Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

**IMDG/IMO** Not regulated

**ICAO** Not regulated

**ICAO/IATA** Not regulated  
**EGR Code** 129

**DOT**  
**Hazard class** 3  
**UN/ID No** UN1219  
**Packing Group** II

**TDG** Not regulated

**MEX** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

Chemical Name	TSCA	EINECS/ELINCS	Inventory - Canada - Domestic Substances List (DSL)	PICCS	ENCS	IECSC	AICS	KECL
ISOPROPYL ALCOHOL	Listed		Listed	Listed	(2)-207 Listed	Listed	Listed	Listed

### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU list of Notified Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

## 16. OTHER INFORMATION

### Disclaimer

The information provided on this SDS 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 Material Safety Data Sheet

### Key literature references and sources for data

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)