



7445 Chavenelle Road ■ Dubuque, IA 52002
Tele: (563) 690-0484 ■ 1-800-253-4942
E-Mail: info@ibisci.com ■ **Web:** www.ibisci.com

Issuing Date: 09-Jan-1998

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Rev. 7

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

Product Name: Isopropanol
Product Code: IB15730 & IB15735
Recommend Use: For further manufacturing use only
Uses Advised Against: Not for human or animal drug use
Synonyms: ALCOOL ISOPROPILICO (ITALIAN) * ALCOOL ISOPROPYLIQUE (FRENCH) * ALCOJEL * ALCOSOLVE * AVANTIN * AVANTINE * COMBI-SHUTZ * DIMETHYLCARBINOL * HARTOSOL * 2-HYDROXYPROPANE * IMSOLA * 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)
Company: IBI SCIENTIFIC
7445 Chavenelle Road
Dubuque, IA 52002
Emergency Tele. Number: 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703
Company Tele. Number: 1-800-253-4942 / (001) 563-690-0484
E-Mail Address: info@ibisci.com

2. HAZARDOUS IDENTIFICATION

GHS – Classification

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

Serious Eye Damage/Eye Irritation: Category 2
Specific target organ toxicity (single exposure): Category 3
Flammable liquids: Category 2

Signal Word: Danger



Appearance: Clear and colorless
Physical State: Liquid
Odor: Rubbing alcohol

Hazard Statements: H319-Causes serious eye irritation
H336-May cause drowsiness or dizziness
H225-Highly flammable liquid and vapor

Precautionary Statements: P210-Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233-Keep container tightly closed
P240-Ground/Bond container and receiving equipment
P241-Use explosion-proof electrical/ventilating/lighting/equipment
P242-Use only non-sparking tools
P243-Take precautionary measures against static discharge
P261-Avoid breathing dust/fumes/gas/mist/vapors/spray
P264-Wash face, hands, and any exposed skin thoroughly after handling
P271-Use only outdoors or in a well-ventilated area
P280-Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353-IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312-Call a POISON center or doctor if you feel unwell
P337+P313-If eye irritation persists: Get medical advice/attention
P370+P378-In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish
P403+P233-Store in a well-ventilated place. Keep container tightly closed
P403+P235-Store in a well-ventilated place. Keep cool
P405-Store locked up
P501-Dispose of contents/container to an approved waste disposal plant
P501-Dispose of contents/container to industrial incineration plant

Hazards not otherwise classified: Not applicable

Other Information: May be harmful in contact with skin. May be harmful if inhaled

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Isopropanol
EC No.: EEC No. 200-661-7
REACH Reg. No.: Not Available
CAS No.: 67-63-0
Weight %: 95 – 100
Classification: F; R11, Xi; R36 R67

4. FIRST AID MEASURES

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. 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 not breathing, give artificial respiration.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth.

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, CO ₂ , appropriate foam
Hazardous Combustion Products:	Carbon oxides
Explosion Data	
Sensitivity to Mechanical Impact:	Not sensitive
Sensitivity to Static Discharge:	Not sensitive
Protective Equip. & Precautions for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Ensure adequate ventilation, especially in confined areas.
Environmental Precautions:	See Section 12 for additional ecological information.
Methods for Containment:	Prevent further leakage or spillage, if safe to do so.
Methods for Cleaning Up:	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

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name:	Isopropanol - #67-63-0
ACGIH TLV:	STEL: 400ppm TWA: 200ppm
OSHA PEL:	TWA: 400ppm TWA: 980mg/m ³
NIOSH IDLH:	IDLH: 2000ppm TWA: 400ppm TWA: 980mg/m ³ STEL: 500ppm STEL: 1225mg/m ³
Engineering Measures:	Showers, Eyewash Stations, Ventilation Systems
<u>Personal Protective Equipment</u>	
Eye/Face Protection:	Avoid contact with eyes. Safety glasses with side shields.
Skin & Body Protection:	Wear protective gloves/clothing.
Respiratory Protection:	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.
Hygiene Measures:	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 Temp. °C:	No information available
Freezing Point:	No information available
Initial Boiling Point:	No information available
Physical State:	Liquid
pH:	No data available
Flash Point:	12°C / 54°F
Autoignition Temp. °C:	No data available
Boiling Point/Range:	82°C / 180°F
Melting Point/Range:	-89°C
Flammability Limits (Air):	<u>Upper</u> -No data available * <u>Lower</u> -No data available
Explosion Limits	No information available
Explosive Properties:	No information available
Oxidizing Properties:	No information available
Evaporation Rate:	2.83 (BuAc =1)
MMHG @ 37.8°C:	No data available
Density:	2.1
Specific Gravity:	0.79
Water Solubility:	Miscible in water
Solubility in other solvents:	No data available
Partition Coefficient (n-octanol/water):	No data available
Viscosity:	No information available

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under recommended storage conditions
Possibility of Hazardous Reactions:	None under normal processing
Incompatible Products:	Oxidizing agents, Acids, Anhydrides, Halogens, Aluminum
Conditions to Avoid:	Keep away from heat, sparks, and open flames.
Hazardous Decomposition Products:	None known based on information supplied.
Hazardous Polymerization:	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information:	Irritating to eye, skin, and respiratory system. Flammable liquid.	
Inhalation:	There is no data available for this product	
Eye Contact:	There is no data available for this product	
Skin Contact:	There is no data available for this product	
Ingestion:	There is no data available for this product	

Chemical Name:	Isopropanol - #67-63-0
LD50 Oral:	1870mg/kg (Rat)
LD50 Dermal:	4059mg/kg (Rabbit)
LC50 Inhalation:	72600mg/m ³ (Rat) 4h

Information on toxicological effects

Symptoms:	No information available.
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Delayed and immediate effects as well as chronic effects from short and long term exposure

Sensitization: No information available
 Mutagenic Effects: No information available
 Carcinogenicity: The listing below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name: Isopropanol - #67-63-0
 ACGIH: -
 IARC: Group 3
 NTP: -
 OSHA: -

Reproductive Toxicity: No information available
STOT – single exposure: No information available
STOT – repeated exposure: No information available
Target Organ Effects: Nerves, Kidneys.
Aspiration Effects: No information available

Numerical measures of toxicity – Product Information

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

12. ECOLOGICAL INFORMATION

Ecotoxicity: 0% of mixture consists of component(s) of unknown hazards to aquatic environment

Chemical Name: Isopropanol - #67-63-0
 Toxicity to Algae: EC50 = 1000mg/L *Desmodesmus subspicatus* (96h)
 EC50 = 1000mg/L *Desmodesmus subspicatus* (72h)
 Toxicity to Fish: LC50 = 9640mg/L *Pimephales promelas* (96h)
 LC50 = 11130mg/L *Pimephales promelas* (96h)
 LC50 = 140000mg/L *Lepomis macrochirus* (96h)
 Daphnia Magna (Water Flea): EC50 = 13299µg/L *Daphnia magna* (48h)

Persistence and Degradability: No information available
Bioaccumulation/Accumulation: No information available

Chemical Name: Isopropanol - #67-63-0
 Low Pow: 0.05
Other Adverse Effects: No information available

13. DISPOSAL CONSIDERATIONS

Water Disposal Method: Dispose of material in accordance with all federal, state, and local regulations.
Contaminated Packaging: Do not re-use empty containers.

Chemical Name: Isopropanol - #67-63-0
 RCRA: -
 RCRA – Basis for Listing: -
 RCRA – D Series Wastes: -
 RCRA – U Series Wastes: -

Chemical Name: Isopropanol - #67-63-0
 RCRA – Halogenated Organic Compounds: -
 RCRA – P Series Wastes: -
 RCRA – F Series Wastes: -
 RCRA – K Series Wastes: -

Chemical Name: Isopropanol - #67-63-0
 California Hazardous Waste Status: -

14. TRANSPORT INFORMATION

IATA

UN#	UN1219
Proper Shipping Name	ISOPROPANOL
Hazardous Class	3
Packing Group	II

US DOT

UN#	UN1219
Proper Shipping Name	ISOPROPANOL
Hazardous Class	3
Packing Group	II

15. TOXICOLOGICAL INFORMATION

International Inventories

TSCA:	Does not comply
DSL/NDSL:	Complies
EINECS/ELINCS:	Complies
ENCS:	Complies
IECSC:	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA:	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL:	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS:	European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS:	Japan Existing and New Chemical Substances
IECSC:	China Inventory of Existing Chemical Substances
KECL	Korean Existing and Evaluated Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances
AICS	Australian Inventory of Chemical Substances

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 which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

Chemical Name: Isopropanol - #67-63-0
SARA 313 – Threshold Values %: -

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

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

Chemical Name:	Isopropanol - #67-63-0
CWA – Reportable Quantities:	-
CWA – Toxic Pollutants:	-
CWA – Priority Pollutants:	-
CWA – Hazardous Substances:	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name: Isopropanol - #67-63-0
Hazardous Substances RQs: -
Extremely Hazardous Substances RQs: -
RQ: -

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name: Isopropanol - #67-63-0
California Prop. 65: -

U.S. Right-to-Know Regulations

Chemical Name: Isopropanol - #67-63-0
New Jersey: X
Massachusetts: -
Pennsylvania: X

U.S. EPA Label Information

EPA Pesticide Registration #: Not applicable.

Canada No information available

WHMIS Hazard Class

D2B – Toxic materials

B2 – Flammable liquid



16. OTHER INFORMATION

Issuing Date: 09-Jan-1998

Revision Date: 6-July-2018

Revision Note: Updated address and logo

Recommended Restrictions: No information available

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 test.

End of Safety Data Sheet