

# SAFETY DATA SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers	
	Product name	: Isopropyl Alcohol 99%
	CAS number	: 67-63-0
	Synonyms	: IPA, Isopropyl Alcohol, Isopropanol
1.2	Relevant identified uses of t	ne substance or mixture and uses advised against
	Identified uses	: General purpose solvent.
1.3	Details of the supplier of the	safety data sheet
	Company	: Lab Alley, LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 U.S.A.
	Telephone Fax	: 512-668-9918 : 512-886-4008
1.4	Emergency telephone	
	Emergency Phone #	: US & Canada: 1-800-535-5053 INFOTRAC International 1-352-323-3500 INFOTRAC

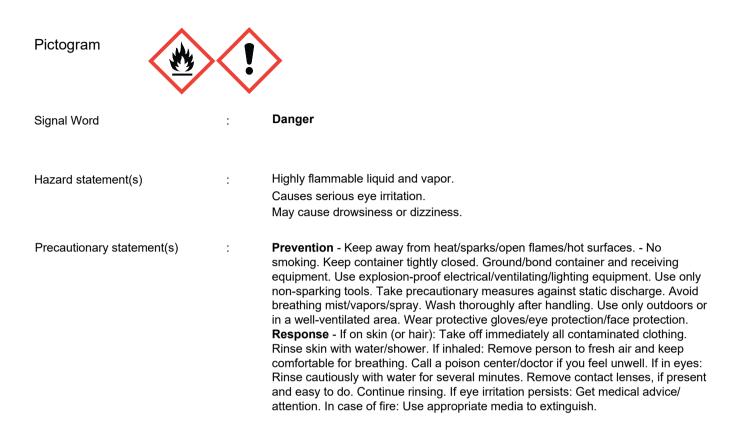
# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2) Eye irritation (Category 2A) Specific target organ toxicity - single exposure (Category 3); Narcotic effects

# 2.2 GHS Label elements, including precautionary statements



# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None.

# **SECTION 3: Composition/information on ingredients**

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	%
Isopropyl alcohol		67-63-0	100

### 3.2 Composition comments

All concentrations are in percent by weight unless otherwise indicated.

### **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

General advice	:	Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
lf inhaled	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

In case of skin contact	:	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
In case of eye contact	:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
If swallowed	:	Rinse mouth. Get medical attention if symptoms occur.

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

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media : Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2 Specific hazards arising from the substance or mixture

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides.

### 5.3 Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### 5.4 Further information

Use standard firefighting procedures and consider the hazards of other involved materials. Highly flammable liquid and vapor.

### **SECTION 6: Accidental release measures**

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

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors/spray. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### 6.2 Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

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

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual containation. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

### 6.4 Reference to other sections

For disposal see section 13.

#### SECTION 7. Handling and storage

#### 7.1 Dracoutions for asfa handli

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

#### **Hygiene measures**

Change contaminated clothing. Wash hands after working with substance. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. For precautions see section 2.2.

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

#### Storage conditions

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

#### **SECTION 8. Exposure controls/personal protection**

#### 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material		Туре	Va	lue	
Isopropyl alcohol (CAS 67-63-0)		PEL	98	0 mg/m3	
			40	D ppm	
US. ACGIH Threshold Li	mit Values				
Material		Туре	Va	lue	
Isopropyl alcohol (CAS 67-63-0)		STEL	40	) ppm	
		TWA	20	) ppm	
US. NIOSH: Pocket Guid	e to Chemical Haz	ards			
Material		Туре	Va	lue	
Isopropyl alcohol (CAS 67-63-0)		STEL	12	25 mg/m3	
			50	) ppm	
		TWA	98	) mg/m3	
Biological limit values			40	) ppm	
ACGIH Biological Expos	sure Indices				
Material	Value	Determinar	nt Specimen	Sampling Time	
Isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*	

\* - For sampling details, please see the source document.

# 8.2 Exposure controls

#### Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Personal protective equipment

#### Eye/face protection

Chemical goggles are recommended.

#### Skin protection

Nitrile, butyl rubber or neoprene gloves are recommended. Other suitable gloves can be recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

#### **Body Protection**

Wear appropriate chemical resistant clothing.

#### **Respiratory protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Chemical respirator with organic vapor cartridge.

#### Control of environmental exposure

Do not let product enter drains. Risk of explosion.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical State	Liquid.
Appearance	Colorless liquid.
Odor	Alcohol-like.
Odor Thresh	Not available.
рН	Not available.
Melting Point/Range	-129.1 °F (-89.5 °C)
Boiling Point/Range	181.4 °F (83 °C)
Flash Point	53.6 °F (12.0 °C) Closed Cup
Evaporation Rate	3
Flammability (solid)	Not applicable
Flammability or explo	sive limit
	Upper : 12.7% v/v
	Lower : 2% v/v
Vapor Pressure	43.2 hPa (68 °F (20 °C))
Vapor Density	2.1
Density	0.785 g/ml (77 °F (25 °C))
Solubility	completely soluble
Constinuy	

Partition coefficient; n-octanol/water Autoignition Temp	0.05 750.2 °F (399 °C)
Decomposition Temp	Not available
Viscosity	Not available
Molecular Formula	C3-H8-O
Molecular Weight	60.1 g/mo
VOC Content(%)	Not oxidizing.
Oxidizing properties	Not oxidizing.

### 9.2 Other safety information

No data available

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

### 10.2 Chemical stability

Material is stable under normal conditions. Hygroscopic.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Avoid direct light. Contact with incompatible materials.

### 10.5 Incompatible materials

Chlorine. Isocyanates. Strong oxidizing agents. Acid anhydrides. Aluminum. Halogenated compounds. Acids.

#### **10.6 Hazardous decomposition products**

No hazardous decomposition products are known.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### **Product Information, Component Information**

#### Acute toxicity

Product	Species	Test Results
Isopropyl alcohol (CAS 67-63-0)		
Acute		
Dermal		
LD50	Rabbit	12870 mg/kg
Inhalation		
Vapor		
LC50	Rat	72.6 mg/l, 4 Hours
Oral	Rat	4710 mg/kg
Vapor LC50		-

#### Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

#### Serious eye damage/eye irritation

Causes serious eye irriitation.

#### Respiratory or skin sensitization

Not a respiratory sensitizer. This product is not expected to cause skin sensitization.

#### Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

#### Carcinogenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

### **NTP Report on Carcinogens**

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

#### **Reproductive toxicity**

This product is not expected to cause reproductive or developmental effects.

#### Specific target organ toxicity - single exposure

May cause drowsiness and dizziness.

#### Specific target organ toxicity - repeated exposure

Not classified.

#### Aspiration hazard

Not an aspiration hazard.

#### **Chronic effects**

Prolonged inhalation may be harmful.

#### 11.2 Additional Information

None.

#### **12. Ecological information**

### 12.1 Toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results
Isopropyl alcohol (CAS	S 67-63-0)		
Aquatic			
Acute			
Crustacea	LC50	Daphnia magna	> 10000 mg/l, 24 hours
Fish	LC50	Pimephales promelas	9640 mg/l, 96 hours
Chronic			
Crustacea	EC50	Daphnia magna	> 100 mg/l, 21 days
	NOEC	Daphnia magna	141 mg/l, 16 days 30 mg/l, 21 days

### 12.2 Persistence and degradability

No data available

### 12.3 Bio accumulative potential

Partition coefficient n-octanol / water (log Kow) - 0.05

#### 12.4 Mobility in soil

Expected to be mobile in soil.

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### 12.6 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### **13. Disposal considerations**

#### 13.1 Waste Disposal Methods

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 13.2 Local disposal regulations

Dispose in accordance with all applicable regulations.

#### 13.3 Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

#### 13.4 Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

#### 13.4 Contaminated packaging

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

# **SECTION 14: Transport information**

DOT (US)	
UN number:	UN1219
Proper shipping name:	Isopropanol
Hazard Class:	3
Subsidiary risk:	5
Packaging Group:	11
Environmental hazards:	II.
	No
Marine pollutant Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB2, T4, TP1
Packaging exceptions	4b, 150
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number:	UN1219
Proper shipping name:	Isopropanol
Hazard Class:	3
Subsidiary risk:	
Packaging Group:	II
Environmental hazards:	No
ERG Code:	3L
Special precautions for user:	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number:	UN1219
Proper shipping name:	Isopropanol
Hazard Class:	3
Subsidiary risk:	
Packaging Group:	II
Environmental hazards:	
Marine pollutant	No

#### Special precautions for user: Transport in bulk according to Annex II of MARPOL

73/78 and the IBC Code.

EmS:

F-E, S-D Read safety instructions, SDS and emergency procedures before handling. Not established.

# **SECTION 15: Regulatory information**

US federal regulations	This product is a 29 CFR 1910.120	"Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 00.
TSCA Section 12(b) Export Not regulated. CERCLA Hazardous Subst		
Isopropyl alcohol (CAS SARA 304 Emergency relea	,	Listed.
Not regulated. OSHA Specifically Regulat	ed Substances (29 CFF	र 1910.1001-1053)
Not regulated.		
Superfund Amendments and Re	eauthorization Act of 19	986 (SARA)
SARA 302 Extremely hazar	rdous substance	

Not listed.

	SARA 311/312 Hazardous chemical	Yes		
	Classified hazard categories	Serious eye damage	erosols, liquids, or solids) or eye irritation toxicity (single or repeated e	exposure)
	SARA 313 (TRI reporting)			
	Chemical name		CAS number	% by wt.
	Isopropyl alcohol		67-63-0	100
Ot	ner federal regulations			
	Clean Air Act (CAA) Section 1 Not regulated. Clean Air Act (CAA) Section 1		. ,	30)
	Not regulated.			
	Safe Drinking Water Act (SDWA)	Not regulated.		
	FEMA Priority Substance Isopropyl alcohol (CAS 67-		nd Safety in the Flavor Ma	nufacturing Workplace
U	S state regulations US. Massachusetts RTK - Sub Isopropyl alcohol (CAS 67- US. New Jersey Worker and C Isopropyl alcohol (CAS 67-	63-0) ommunity Right-to-Kno	ow Act	
	US. Pennsylvania Worker and Isopropyl alcohol (CAS 67- US. Rhode Island RTK		ínow Law	
	Isopropyl alcohol (CAS 67-	63-0)		
	California Proposition 65			
		chemicals currently liste	ent Act of 2016 (Proposition ed as carcinogens or reprodu	
	US. California. Candidate	Chemicals List Safer	Computer Duaduate Donul	lations (Cal. Code Regs. tit

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
Canada	Inventory of Existing Chemical Substances in China (IECSC)	Yes
China	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Europe	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Japan Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA)	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# **SECTION 16: Other information**

Issue Date	06/11/2018
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#### **Disclaimer:**

The information provided on this Safety Data Sheet 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.