

Safety Data Sheet

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name: **Isobutyl Alcohol (Isobutanol), Natural**
 Product Number: **0217900**
 Recommended Use: **Flavorings**

Manufacturer: **Aurochemicals**
 7 Nicoll Street
 Washingtonville, NY 10992 – USA
 845-496-6065
 845-496-6248 Fax

Emergency Telephone No.: **1-800-535-5053**
 (International 1-352-323-3500 collect)

Section 2: HAZARD(s) IDENTIFICATION

OSHA Hazards: **Flammable Liquid, Target Organ Effect, Irritant**
 GHS Classification: **Flammable Liquids (Category 2)**
 Target Organs: **Central Nervous System, Liver, Kidney**

Signal Word:
 Pictogram or written description

DANGER



Hazard Statement:	H226	Flammable liquid and vapor.
	H303	May be harmful if swallowed.
	H313	May be harmful if in contact with skin
	H315	Causes skin irritation
	H318	Causes serious eye damage
	H333	May be harmful if inhaled
	H335+	May cause respiratory irritation
	H336	May cause drowsiness or dizziness
	H401	Toxic to aquatic life
Precautionary Statement	P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
	P280	Wear protective gloves/ eye protection/face protection
	P305+	IF IN EYES: Rinse cautiously with water for several minutes.
	P351+	Remove contact lenses if present and easy to do.
	P338	Continue rinsing
HMIS Classification	Health Hazard	2
	Chronic Health Hazard*	
	Flammability	3
	Physical Hazards	0

Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness

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	and dizziness
Skin	May be harmful if absorbed through skin. Causes skin irritation
Eyes	Causes eye irritation
Ingestion	May be harmful if swallowed

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Component	Iso Butanol
Common Name:	Isobutyl Alcohol
Synonyms:	Isobutanol; 2 methyl -1-propanol
CAS #	78-83-1
EC#	201-148-0
Index No.	603-108-00-1
Formula	C ₄ H ₁₀ O
Molecular Weight	74.12 g/mol

Section 4: FIRST AID MEASURES

General Advise:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. Consult a physician.
Inhalation:	Provide fresh air, Consult a physician.
Ingestion:	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water, seek medical advice, show this container or label to attending physician.
Clothing contamination:	Remove contaminated clothing and wash before reuse.

Section 5: FIREFIGHTING MEASURES

Conditions of Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface.- No Smoking.
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Firefighting Procedures:	Do not stay in danger zone without self contained breathing apparatus Prevent fire-fighting water from entering surface or ground water Cool unopened containers with water spray from a safe distance.
Other Information	Hazardous decomposition products formed under fire conditions – Carbon oxides

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions	Evacuate personnel to safe areas. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental-protected measures	Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.
Procedures for cleaning / absorption	Take up with liquid absorbent material. Place in appropriate container and keep closed until disposal.
Ventilate area	After clean up, wash spill area and ventilate the area well.

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Section 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic charge.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:			Components with workplace control parameters	
Components	CAS-No.	Value	Control Parameters	Basis
Iso-Butanol	78-83-1	TWA	50 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks: Skin and eye irritation				
		TWA	50 ppm 150 mg/m ³	USA OSHA-Table Z-1 Limits for Air Contaminants-1910.1000
		TWA	50 ppm 150 mg/m ³	USA Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contaminants
The value in mg/m ³ is approximate				
		TWA	50 ppm 150 mg/m ³	USA. NIOSH Recommended Exposure Limits

Personal Protective Equipment:

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.

Body Protection:

Complete suit protecting against chemicals should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory Protection:

Required when vapors / aerosols are generated.

Eye Protection:

Wear tightly fitting safety goggles, Face shield – 8 " min. Wear appropriate eye and face protection – Face Shield.

Hand Protection:

Wear chemically resistant gloves of Nitrile rubber.

Industrial Hygiene:

Handle in accordance with good industrial hygiene and safety practice. Change contaminated clothing and wash before reuse. Wash hands after working with product. Application of barrier cream is recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Colorless liquid

Odor:

Wine like

Boiling Point:

108°C -lit

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Flashpoint:	28°C
Melting Point/Freezing Point:	N/a
Ignition temperature	No data available
Lower Explosion Limit	1.7% Vol.
Upper Explosion Limit	10.6% Vol.
Vapor Pressure:	8 hPa (6mmHg) at 20°C, 10 hPa (8mmHg) at 22°C
Specific Gravity @ 25°C:	0.799-0.805
Solubility	Slightly soluble in water; miscible with alcohol and oils
Relative vapor density	2.55-(Air-1.0)
Viscosity, kinematic	4.00 mm ² /s at 20°C
Evaporation Rate	0.6

Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid	Heat, Flames and Sparks.
Materials to avoid	Strong oxidizing agents, Acid chlorides, Acid anhydrides
Hazardous decomposition products:	Fumes formed under fire conditions – carbon oxides
Further information	No data available

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	
LD50, Oral - Rat	2,460 mg/kg
	2,500-6,400 mg/kg
LC50 Inhalation- Rat	8000 ppm 4-h
LD50 Dermal Rabbit	3,400 mg/kg
	4,240 mg/kg
Other information on acute toxicity	LD50 Intraperitoneal – Mouse -544 mg/kg
:	LD50 Intravenous – Mouse- 417 mg/kg
	LD50 Intraperitoneal-Rabbit – 323 mg/kg
	LD50 Intraperitoneal-guinea pig-1,201 mg/kg
	LD50 Intraperitoneal-Hamster-1,401 mg/kg
Skin corrosion/irritation	Skin-Guinea pig- Mild skin irritation
Serious eye damage/eye irritation	Eyes-Rabbit-Moderate eye irritation
Respiratory or skin sensitization	Dermatitis
Germ cell mutagenicity	No data available

Carcinogenicity

Carcinogenicity-Rat-Oral Carcinogenicity-rat-Subcutaneous

Tumorigenic: Equivocal Tumorigenic agent by RTECS criteria, Skin and Appendages:
Other: Tumors: Leukemia
Tumorigenic: Carcinogenic by RTECS criteria, Gastrointestinal: Tumors. Liver: Tumors

IARC	No component of this product present levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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	OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity		No data available
Teratogenicity		No data available
Specific target organ toxicity-single exposure (GHS)		May cause respiratory irritation. May cause drowsiness or dizziness.
Specific target organ toxicity-repeated exposures (GHS)		No data available
Aspiration Hazards		No data available
Potential Health effects		
	Inhalation	May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.
	Ingestion	May be harmful if swallowed
	Skin	May be harmful if absorbed through skin. Causes skin irritation
	Eyes	Causes eye Irritation
Signs and Symptoms of Exposure		Cough, shortness of breath, headache, nausea, vomiting. Central nervous system depression.
		To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
Synergistic effects		No data available
RTECS:		NP9625000

Section 12: ECOLOGICAL INFORMATION

Toxicity	
Toxicity to fish	LC50-Pimephales promelas (fathead minnow) 1.220 mg/l -96 h
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB assessment	No data available
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

Section 13: DISPOSAL CONSIDERATIONS

Product:	According to local regulations
Packaging:	According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)	UN 1212 Class 3 Packing Group III
Proper shipping name	Isobutanol
Reportable Quantity (RQ)	5000 lbs
Marine pollutant	No
Poison Inhalation Hazard	No

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**IMDG-Classification**

Proper shipping name

Marine pollutant

IATA-Classification

Proper shipping name

UN 1212 Class 3 Packing Group III EMS-No.: F-E, S,D

ISBUTANOL

No

UN 1212 Class 3 Packing Group III

Isobutanol

Section 15: REGULATORY INFORMATION

OSHA Hazards

Flammable liquid, Target Organ Effect, Irritant

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know components

Iso-Butanol

CAS# 78-83-1 Rev. Date: 4/24/1993

Pennsylvania Right to Know components

Iso-Butanol

CAS# 78-83-1 Rev. Date: 4/24/1993

New Jersey Right to Know components

Iso-Butanol

CAS# 78-83-1 Rev. Date: 4/24/1993

California Prop. 65 components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: OTHER INFORMATION

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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