

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

## Section 1: IDENTIFICATION

Product Name: **Isobutyric Acid, Natural**  
 Product Number: **0222200**  
 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: Combustible Liquid, Toxic by Ingestion, Toxic by skin absorption  
 Other hazards which do not result in classification: **Stench**  
 GHS Classification: Flammable Liquids (Category 3)  
 Acute toxicity Oral (Category 3)  
 Acute toxicity Dermal (Category 3)  
 Acute aquatic toxicity (Category 3)

Signal Word: DANGER

Pictogram or written description: 

Hazard Statement: H226 Flammable liquid and vapor  
 H301+ Toxic if swallowed  
 H311 Toxic if contact with skin  
 H402 Harmful to aquatic life

Precautionary Statement: P280 Wear protective gloves/protective clothing  
 P301+ IF SWALLOWED: Immediately call a POISON CENTER or Doctor  
 P310  
 P312 Call a POISON CENTER or doctor if you feel unwell

HMIS Classification: Health Hazard 2  
 Flammability 2  
 Physical Hazards 0

## Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation
Skin	Toxic if absorbed through skin. May cause skin irritation
Eyes	May cause eye irritation
Ingestion	Toxic if swallowed

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

### Substances:

Component:	Isobutyric Acid
Common Name:	Isobutyric Acid
Synonyms:	2-methylpropionic acid
CAS #	79-31-2
EC#	201-195-7
Formula	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>
Molecular Weight	88.11 g/mol

## Section 4: FIRST AID MEASURES

General Advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Contact with eyes:	Flush eyes with water as a precaution.
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. Wear rubber boots and heavy rubber gloves. Prevent fire-fighting water from entering surface or ground water. Cool unopened containers with water spray from a safe distance. Contain escaping vapors with water.
Hazardous combustion products	Hazardous decomposition products formed under fire conditions – Carbon oxides

## Section 6: ACCIDENTAL 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.

## 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	Store in cool place. Keep container tightly closed, in dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from source of ignition – no smoking Handle and store under inert gas. Air and moisture sensitive Stench

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Contains no substances with occupational exposure limit values.
Personal Protective Equipment:	<b>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.</b>
Body Protection:	Protective clothing of impervious, flame retardant antistatic material 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 appropriate eye and face protection – Face Shield.
Hand Protection:	Wear chemically resistant gloves of Nitrile rubber.
Industrial Hygiene:	Avoid contact with skin, eyes and clothing. 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 to pale yellow liquid
Odor:	Penetrating, rancid butter like odor
Boiling Point:	153-155°C
Flashpoint:	55°C
Melting Point	N/a
Ignition temperature	440°C
Lower Explosion Limit	2% Vol
Upper Explosion Limit	10% Vol
Vapor Pressure:	2.0 hPa (1.5 mmHg) at 20°C
Specific Gravity @ 25°C:	0.945-0.957
Solubility:	Miscible in alcohol, most fixed oils, glycerin and propylene glycol; insoluble in water
Relative vapor density	3.04 - (Air=1.0)

## Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No data available
Conditions to avoid	Heat, flames and sparks
Materials to avoid	Strong oxidizing agents
Hazardous decomposition products:	Fumes formed under fire conditions – carbon oxides
Further information	No data available

## Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	
LD50, Oral rat	266 mg/kg
LC50 Inhalation	No data available
LD50 Dermal Rabbit	475 mg/kg
Other information on acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
<b>Carcinogenicity</b>	
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.

	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)		No data available
Specific target organ toxicity-repeated exposures (GHS)		No data available
Aspiration Hazards		No data available
Potential Health effects		No data available
	Inhalation	May be harmful if inhaled. May cause respiratory tract irritation
	Ingestion	Toxic if swallowed
	Skin	Toxic if absorbed through skin. May cause skin irritation
	Eyes	May cause eye irritation
Signs and Symptoms of Exposure		To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Synergistic effects		No data available
RTECS:		NQ4375000

## Section 12: ECOLOGICAL INFORMATION

Toxicity	No data available
Toxicity to fish	LC 50- Oncorhynchus mykiss (rainbow trout) 28 mg/l – 96h
Toxicity to daphnia and other aquatic invertebrates	EC50- Desmodesmus subspicatus (green algae) 48mg/l -72 hr
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. Harmful to aquatic life. No other data available.

## Section 13: DISPOSAL CONSIDERATIONS

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

## Section 14: TRANSPORT INFORMATION

<b>DOT (US)</b>	UN 2529 Class 3 (8) Packing Group III
Proper shipping name	Isobutyric acid
Reportable Quantity (RQ)	5000 lbs
Marine pollutant	No
Poison Inhalation Hazard	No

**IMDG-Classification** UN 2529 Class 3 (8) Packing Group III EMS-No.: F-E, S,D

