

HEALTH	0
FLAMMABILITY	2
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name: **Isobutyl Butyrate, Natural**
 Product Number: **0218700**
 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**
 GHS Classification **Flammable Liquids (Category 3)**
Acute aquatic toxicity (Category 1)

Signal Word: **WARNING**

Pictogram or written description



Hazard Statement: **H226 Flammable liquid and vapor.**
H400 Very toxic to aquatic life

Precautionary Statement **P273 Avoid release to the environment**

HMIS Classification **Health Hazard 0**
Flammability 2
Physical Hazards 0

Potential Health Effects

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

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Component	Isobutyl butyrate
Common Name:	Isobutyl butyrate

Safety Data Sheet

Synonyms:	2-Methyl Propanyl butyrate
CAS #	539-90-2
EC#	208-729-8
Formula	C ₈ H ₁₆ O ₂
Molecular Weight	144.21 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:	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

Suitable Extinguishing Media	For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large files, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all containers with flooding quantities of water.
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: 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. Discharge into the environment must be avoided.
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 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:	Contains no substances with occupational exposure limit values
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:	Impervious, flame retardant and anti-static clothing 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.
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

Form:	Liquid
Color:	Colorless
Odor:	Fruity odor reminiscent of apple or pineapple
Boiling Point:	157°C
Flashpoint:	46°C
Melting Point/Freezing Point:	No data available
Ignition temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure:	No data available
Specific Gravity @ 25°C:	0.858-0.863
Solubility in Water:	Slightly soluble in water
Solubility in Organic Solvents:	Soluble in alcohol, most fixed oils
Relative vapor density	4.98-(Air-1.0)
Evaporation Rate	0.6

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	>5,000 mg/kg
LD50, Oral- Rabbit	9,520 mg/kg
LC50 Inhalation	No data available
LD50 Dermal	No data available
Other information on acute toxicity:	No data available
Skin corrosion/irritation	Skin-Rabbit
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	
Carcinogenicity-Rat-Oral	Tumorigenic: Equivocal Tumorigenic agent by RTECS criteria, Skin and Appendages: Other: Tumors: Leukemia
Carcinogenicity-rat-Subcutaneous	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.
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. May cause tract irritation.
Ingestion	May be harmful if swallowed
Skin	May be harmful 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: ET5020000

Section 12: ECOLOGICAL INFORMATION

Toxicity	No data available
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. Very 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 3272 Class 3 Packing Group III
Proper shipping name	Esters, n.o.s.
Reportable Quantity (RQ)	
Marine pollutant	No
Poison Inhalation Hazard	No
IMDG-Classification	UN 3272 Class 3 Packing Group III EMS-No.: F-E, S,D
Proper shipping name	ESTERS, N.O.S (Isobutyl butyrate)
Marine pollutant	No
IATA-Classification	UN 3272 Class 3 Packing Group III
Proper shipping name	Esters, n.o.s. (Isobutyl butyrate)

Section 15: REGULATORY INFORMATION

OSHA Hazards Combustible Liquid

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

Massachusetts Right to Know components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know components

Isobutyl butyrate CAS# 539-90-2 Rev. Date:

New Jersey Right to Know components

Isobutyl butyrate CAS# 539-90-2 Rev. Date:

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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