

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name: **Butyl Isobutyrate, Natural**
 Product Number: **0218800**
 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, Irritant
 GHS Classification: Flammable Liquids (Category 3)
 Skin Irritation (Category 2)
 Eye Irritation (Category 2A)
 Specific target organ toxicity-single exposure (Category 3)

Signal Word: Warning
 Hazard Statement: Flammable liquid and vapor
 Pictogram or written description: 

Hazard Statement(s):
 H226 Flammable liquid and vapor
 H315 Causes skin irritation
 H319 Causes serious eye irritation
 H335 May cause respiratory irritation

Precautionary Statement(s):
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification:
 Health Hazard 2
 Flammability 2
 Physical Hazard 0

Potential Health Effects:
 Inhalation May be harmful if inhaled. Causes respiratory tract irritation.
 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:

Chemical Name	n-butyl-2-methyl propanoate
Common Name:	Butyl isobutyrate
Synonyms:	
CAS #	97-87-0
EC#	202-614-6
Molecular Formula	C ₈ H ₁₆ O ₂
Molecular Weight	144.21 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:	Rinse thoroughly with plenty of water, seek medical advice
Contact with skin:	Rinse with cool water, wash with mild soap and warm water
Inhalation:	Provide fresh air, seek medical advice
Ingestion:	DO NOT INDUCE VOMITING. Give water and seek medical advice
Clothing:	Remove contaminated clothing and wash before re-use

Section 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media	For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, 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 affected containers with flooding quantities of water.
Special Firefighting Procedures:	Do not stay in danger zone without self contained breathing apparatus Use water spray, from a safe distance to cool unopened containers. Contain escaping vapors with water. Prevent fire-fighting water from entering surface or ground water Keep away from sources of ignition-No smoking
Unusual fire and explosions hazards	Beware of vapors accumulating to form explosive concentrations. Vapors heavier than air and can accumulate in low areas. Development of hazardous combustion gases or vapors possible in the event of fire- Carbon Oxides.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure
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adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

Do not let product enter drains or allow discharge into the environment

Methods and material for containment and clean up

With absorbent, sweep up and discard in suitable container for disposal according to local regulations. After sweep up, wash down area and ventilate 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

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

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

Impervious clothing, flame retardant antistatic protective 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 are generated and risk assessment shows air-purifying respirators are appropriate use approved full face respiration.

Eye Protection:

Face shield and safety glasses required for protection.

Hand Protection:

Wear chemically resistant gloves.

Industrial Hygiene:

Handle in accordance with good industrial hygiene and safety practice. Change contaminated clothing and wash them thoroughly before re-use. Application of skin protective barrier cream recommended. Wash hands after working with product.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:

Liquid

Color:

Colorless

Odor:

Strong, fruity odor and sweet, pineapple like taste

Boiling Point:

166°C

Flashpoint:

49°C

Melting Point:

No information available

Lower Explosion Limit

No information available

Safety Data Sheet

Upper Explosion Limit	No information available
Ignition temperature	No information available
Auto Ignition Temperature	No information available
Oxidizing properties:	No information available
Vapor Pressure:	No information available
Specific Gravity @ 25°C:	0.855-0.865
Solubility	Soluble in alcohol 1mL 60% alcohol; miscible in alcohol, ether, most fixed oils, insoluble in glycerin, propylene glycol and water

Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No data available
Conditions to be avoided	Heat, Flames, Sparks
Substances to be avoided	Strong Oxidizing agents
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions-Carbon oxides.
Further Information:	No data available

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 Dermal, Rabbit	>5,000 mg/kg
LC50 Inhalation	No information available
Skin corrosion/irritation	No data available
Serious eye damage / eye irritation	No data available
Respiratory or skin sensitization	No data available

Carcinogenicity

IARC	No component of this product present at 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 0.15 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 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 exposure (GHS)	No data available
Aspiration hazard	No data available
Potential Health effects	Inhalation: May be harmful if inhaled. Causes respiratory tract irritation 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	To the best of our knowledge, the chemical, physical, and toxicological properties have not be thoroughly investigated
RTECS #	UA2466945
Additional Information	See complete RTECS report for more information

Section 12: ECOLOGICAL INFORMATION

Ecological information	Do not allow to enter water, drain or soil. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.
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Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

DOT (US)	UN 3272 / Esters, n.o.s., Class 3 -Packing Group III
Reportable Quantity (RQ)	No
Marine pollutant:	No
Poison Inhalation Hazard	No
IMDG- Classification	3 / UN3272 / PGIII Esters, n.o.s. (Butyl Isobutyrate) EMS-No. F-E, S-D
IATA- Classification	3 / UN3272 / PGIII Esters, n.o.s. (Butyl Isobutyrate)

Section 15: REGULATORY INFORMATION

OSHA Hazards	Combustible Liquid, 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
Massachusetts Right to Know Components	No components are subject to the Massachusetts Right to Know Act
New Jersey Right to Know Components	Butyl Isobutyrate CAS # 97-87-0 Rev. Date:
Pennsylvania Right to Know Components	Butyl Isobutyrate CAS # 97-87-0 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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