

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name: **Butyl Butyrate (n-Butyl Butyrate), Natural**
 Product Number: **0218600**
 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, Irritant
 GHS Classification: Flammable Liquids (Category 3)
 Acute Toxicity, Oral (Category 3)
 Skin Irritation (Category 2)

Pictogram or written description



Signal Word:

Warning

Hazard Statement(s)

H226 Flammable liquid and vapor
 H315 Causes skin irritation
 H412 Harmful to aquatic life with long lasting effects

Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces-No Smoking
 P233 Keep container tightly closed
 P240 Ground/bond container and receiving equipment
 P241 Use explosion proof electrical/ventilating/lighting/equipment
 P242 Use only non sparking tools
 P243 Take precautionary measures against static discharge
 P264 Wash skins thoroughly after handling
 P273 Avoid release to the environment
 P280 Wear protective gloves/protective clothing/eye protection/face protection
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower
 P332+P313 If skin irritation occurs: Get medical advice/attention
 P362 Take off contaminated clothing and wash before reuse
 P370+P378 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction
 Store in a well ventilated place. Keep cool
 P403+P235 Dispose of contents/container to an approved waste disposal plant.
 P501

HMIS Classification None

Health Hazard 2
 Chronic Health Hazard *
 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:

Common Name: Butyl Butyrate
 Synonyms:
 CAS # 109-21-7
 EC# 203-656-8
 Index-No. 607-031-00-4
 Molecular Formula $C_8H_{16}O_2$
 Molecular Weight 144.21 g/mol

Hazardous Components	Classification	Concentration
Butyl Butyrate	Flammable Liquids (Category 3) H226 Acute Toxicity, Oral (Category 3) H315 Skin Irritation (Category 2) H412	

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

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	Alcohol-resistant Foam, Dry Powder, Water spray
Special Firefighting Procedures:	Do not stay in danger zone without self contained breathing apparatus Use water spray, from a safe distance to cool unopened Contain escaping vapors with water Prevent fire-fighting water from entering surface or ground water Keep away from sources of ignition
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 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**

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:	165°C
Flashpoint:	49.4°C
Melting Point:	No information available
Explosive Properties:	No information available
Lower Explosion Limit	No information available
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:	0.867-0.877
Solubility	Slightly soluble in water and propylene glycol, 1mL in 3mL 70% alcohol; miscible in alcohol, ether and most vegetable oils.

Section 10: STABILITY AND REACTIVITY

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

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 Oral, Rabbit	9,520 mg/kg
LD50 Dermal, Rabbit	>5,000 mg/kg
LC50 Inhalation	No information available
Skin corrosion/irritation	Rabbit- Skin irritation – 24 h
Serious eye damage / eye irritation	No data available
Respiratory or skin sensitization	No data available
Carcinogenicity	<p>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.</p> <p>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</p> <p>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.</p> <p>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.</p>
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	<p>Inhalation: May be harmful if inhaled. Causes respiratory tract irritation</p> <p>Ingestion: May be harmful if swallowed</p> <p>Skin: May be harmful if absorbed through skin. Causes skin irritation</p> <p>Eyes: Causes eye irritation</p>
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not be thoroughly investigated.
RTECS #	AF1225000
Additional Information	See complete RTECS report for more information

Section 12: ECOLOGICAL INFORMATION

Toxicity to Fish: LC50	11.6 mg/l 96 h (Pimephales promelas-fathead minnow)
Additional 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.

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

DOT (USA)	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 Butyrate) EMS-No. F-E, S-D
IATA- Classification	3 / UN3272 / PGIII Esters, n.o.s. (Butyl Butyrate)

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	Butyl Butyrate CAS # 109-21-7 Rev. Date: 4/24/1993
New Jersey Right to Know Components	Butyl Butyrate CAS # 109-21-7 Rev. Date: 4/24/1993
Pennsylvania Right to Know Components	Butyl Butyrate CAS # 109-21-7 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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