

Safety Data Sheet

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Ethyl Butyrate, Natural
Product Number	0242700
CAS-No.	105-54-4

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA
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Telephone	845-496-6065
Fax	845-496-6248

1.4 Emergency Telephone Number

1-800-535-5053
International - 1-352-323-3500 collect

Section 2: HAZARD(s) IDENTIFICATION

2.1 Classification of substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)	Flammable liquids (Category 3), H226 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity-single exposure-(Category 3) Respiratory System- H335
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2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

WARNING

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)

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

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- P242 Use only non sparking tools
 P243 Take precautionary measures against static discharge
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 P264 Wash skin thoroughly after handling
 P271 Use only outdoors or in a well ventilated area
 P280 Wear protective gloves/protective clothing/eye protection/face protection
 P303+P361+P353 IF IN SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
 P312 Call a POISON CENTER or doctor/physician if you feel unwell
 P332+P313 If skin irritation occurs: Get medical advice/attention
 P337+P313 If eye irritation persists: 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.
 P403+P333 Store in a well ventilated place. Keep container tightly closed.
 P403+P235 Store in a well ventilated place. Keep cool.
 P501 Dispose of contents/container to an approved waste disposal plant.

2.3 HNOC (Hazards not otherwise classified or not covered by GHS)

None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	Butyric acid ethyl ester
Formula	C ₆ H ₁₂ O ₂
Molecular Weight	116.16 g/mol
CAS-No	105-54-4
EC-No.	203-306-4

Hazardous Components

Component	Classification	Concentration
Ethyl Butyrate	Flammable liquids (3), H226 Skin irritation (2), H315 Eye irritation (2A), H319 Specific target organ toxicity-single exposure- (3) Respiratory System- H335	-

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Inhalation	Provide fresh air; keep at rest and at a comfortable position to breathe. 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

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Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes as a precaution. Consult a physician.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Clothing contamination:	Remove contaminated clothing and wash before reuse.
4.2 Most important symptoms and effects both acute and delayed	See section 2.2 and or section 11
4.3 Indication of any immediate medical attention and special treatment needed.	No data available

Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media Suitable Extinguishing Media	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide
5.2 Special hazards arising from the substance or mixture	Carbon oxides
5.3 Advice for fire fighters	Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions.
5.4 Further information	Use water spray to cool unopened containers.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	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.
6.2 Environment precautions	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.
6.3 Methods and materials for containment and clean up	Contain spillage. Wet Sweep up with broom and place in a suitable, closed container for disposal.
6.4 Specific end use(s)	Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

Section 7: HANDLING AND STORAGE

7.1 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.
7.2 Conditions for Safe storage	Keep container tightly closed in a dry, cool and well-ventilated place. Containers which have been opened must be carefully resealed and kept upright to prevent leakage.

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7.3 Specific End use(s)

Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances or mixtures with occupational exposure limit values

8.2 Exposure Controls

Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.
Personal protective equipment	These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situations of anticipated use by our customers. They should not be construed as offering an approval or any specific use scenario.
Eye/face protection	Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or CEN 166 (EU).
Skin protection	Wear chemically resistant Butyl rubber gloves, 0.3mm. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.
Body protection	Complete suit of impervious, flame retardant, anti-static material, 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	Where risk assessment shows air-purifying respirators are appropriate, use a full face respirator with multi-purpose combination (U) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full faced supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (U) or CEN (EU).
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a Appearance	Colorless liquid
b Odor	Pineapple, fruity
c Odor Threshold	No data available
d pH	No data available

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e	Melting Point /Freezing Point	Melting Point: -93°C
f	Boiling Point	120-121°C
g	Flash Point	26°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	No data available
k	Vapor pressure	No data available
l	Vapor density	4.01 (Air = 1.0)
m	Relative density @25°C	0.870-0.877
n	Solubility	Soluble in fixed oil and propylene glycol, insoluble in glycerin
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	No data available
q	Decomposition Temp,	No data available
r	Viscosity	No data available
s	Explosive properties	No data available
t	Oxidizing properties	No data available
9.2	Other Safety Information	No data available

Section 10: STABILITY AND REACTIVITY

10.1	Reactivity	No data available
10.2	Chemical Stability	Stable under recommended storage conditions
10.3	Possibility of Hazardous reactions	Vapors may form explosive mixture with air
10.4	Conditions to avoid	Heat, Flames and Sparks
10.5	Incompatible materials	Oxidizing agents, Bases, acids
10.6	Hazardous decomposition products	No data available
10.7	Further Information	No data available

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Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral- Rat

13,000 mg/kg

Remarks: Behavioral: Somnolence (General depressed activity), Coma

LC50-Inhalation

No data available

LD50-Dermal-Rabbit

>2,000 mg/kg

Skin corrosion/irritation

Rabbit- Moderate skin irritation 24 h

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ Cell mutagenicity

No data available

Carcinogenicity

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)

Inhalation - May cause respiratory irritation

Specific target organ toxicity-repeated exposures (GHS)

No data available

Aspiration Hazards

No data available

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:

ET1660000

Section 12: ECOLOGICAL INFORMATION

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12.1 Toxicity

To Fish:

LC50 – Leuciscus idus melanotus – 35 mg/l -48 hr

LC50 – Leuciscus idus melanotus – 53 mg/l -48 hr

To daphnia and other aquatic invertebrates

LC50 – Daphnia magna (Water flea) - 755 mg/l -24 h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required / not conducted

12.6 Other adverse effects

No data available

Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Product:

According to local regulations

Packaging

According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)

Proper Shipping Name

UN Number: 1180 Class: 3 Packing Group III

Reportable Quantity (RQ)

Ethyl Butyrate

Marine pollutant

No

Poison Inhalation Hazard

No

No

IMDG

Proper Shipping Name

UN Number: 1180 Class: 3 Packing Group III EMS-No: F-E, S-D

Marine Pollutant

ETHYL BUTYRATE

No

IATA

Proper Shipping Name

UN Number: 1180 Class: 3 Packing Group III

Ethyl Butyrate

Section 15: REGULATORY INFORMATION

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

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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

Ethyl Butyrate

CAS# 105-54-4

Rev. Date: 4/24/1993

Pennsylvania Right to Know components

Ethyl Butyrate

CAS# 105-54-4

Rev. Date: 4/24/1993

New Jersey Right to Know components

Ethyl Butyrate

CAS# 105-54-4

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

HMIS Rating

Health hazard 2
Chronic Health Hazard

Flammability 3
Reactive Hazard 0

Further 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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