

HEALTH 1 FLAMMABILITY 2 REACTIVITY 0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name Ethyl 3-Hydroxy Butyrate, Natural

Product Number **0342800** CAS-No. **5405-41-4**

1.2 Product Recommended Use Flavorings

1.3 Preparation Information

Company Aurochemicals

7 Nicoll Street

Washingtonville, NY 10992

 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): Not a hazardous substance or mixture

2.2 GHS Label Elements, Including precautionary statements

Signal Statement Warning

Hazard Statement(s) H227 Combustible Liquid

None

Precautionary Statement(s) P210 Keep away from heat/sparks/open flames/hot surfaces – No Smoking

P280 Wear protective gloves/protective clothing/eye protection/face protection

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction

P403+P235 Store in a well ventilated place. Keep cool

P501 Dispose of contents/container to an approved waste disposal plant.

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2.3 HNOC (Hazards not otherwise classified or not covered by GHS -None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Pictogram

Formula $C_6H_{12}O_3$

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Safety Data Sheet



Molecular Weight 132.16 g/mol CAS-No 5405-41-4 EC-No. 226-456-2

Hazardous Components

Component	Classification	Concentration
Ethyl 3-hydroxybutyrate	Flammable liquid (4) H227	-

Section 4: FIRST AID MEASURES

Description of first aid measures 4.1

> 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.

Contact with eyes: Rinse thoroughly with plenty of water for at least 15 as a precaution.

DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Ingestion

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

Indication of any immediate medical

attention and special treatment needed.

No data available

Section 5: FIREFIGHTING MEASURES

Extinguishing Media

and clean up

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special hazards arising from the Carbon oxides

substance or mixture

Advice for fire fighters 5.3 Wear self contained breathing apparatus for firefighting if necessary.

5.4 **Further information** No data available

Section 6: **ACCIDENTIAL RELEASE MEASURES**

6.1 Personal precautions, protective Use personal protective equipment. Avoid breathing vapors, mist or gas. Remove all equipment and emergency procedures

sources of ignition. 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.

6.3 Methods and materials for containment Contain spillage. Soak up with absorbent material. Sweep up with broom and shovel.

Place in a suitable, closed container for disposal.

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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 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 and well-ventilated place. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

7.3 **Specific End use(s)** Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters: Contains no substance with occupational exposure limits.

Appropriate Engineering Controls Handle in accordance with good industrial hygiene and safety practices.

Wash hands before breaks and at the end of the day.

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.

Eye/face protection Wear appropriate safety glasses with side shields conforming to EN 166. Use

equipment for eye protection tested and approved under appropriate government

standards such as NIOSH (US) or EN 166 (EU).

Skin protection Wear chemically resistant, rubber gloves when handling this product.. 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 Impervious clothing 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

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respirator with multi-purpose combination (US) 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 face, air supplied respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or

CE N (EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties



a Appearance Colorless viscous liquid
b Odor Fresh, fruity, grape odor
c Odor Threshold No data available
d pH No data available
e Melting Point /Freezing Point No data available

f Boiling Point 170°C g Flash Point 64.4°C

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 No data available
m Relative density at 25°C 1.000-1.017

n Solubility 100g in 100 mL water (23°C)

Partition coefficient: n-octanol/water No data available 0 No data available Auto-ignition Temp. р Decomposition Temp, No data available q Viscosity No data available r Explosive properties No data available S 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
 10.4 Conditions to avoid
 10.5 Incompatible materials
 10.6 Hazardous decomposition products
 10.7 Further Information
 No data available
 No data available
 No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral No data available
LC50-Inhalation No data available
LD50-Dermal 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

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.

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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
Teratogenicity
Specific target organ toxicity-single
No data available
No data available
No data available

exposure (GHS)

Specific target organ toxicity-repeated

exposures (GHS)

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

No data available

Synergistic effect No data available RTECS: Not available

Section 12: ECOLOGICAL INFORMATION

12.1ToxicityNo data available12.2Persistence and degradabilityNo data available12.3Bioaccumulative potentialNo data available12.4Mobility in soilNo 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)

NA-Number: 1993 Class: None Packing Group: III
Proper Shipping Name: Combustible Liquid, n.o.s. (Ethyl 3-hydroxybutyrate)

Reportable Quantity (RQ):

Marine Pollutant:

No
Poison Inhalation Hazard:

No

IMDG Not dangerous goods IATA Not dangerous goods

Section 15: REGULATORY INFORMATION

Reach No. A registration number is not available for this substance as its uses are exempted from

registration, the annual tonnage nod not require a registration or the registration is

envisaged for a later registration deadline.

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III,

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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 Ethyl 3-hydroxybutyrate CAS# 5405-41-4 Rev. Date:

New Jersey Right to Know components Ethyl 3-hydroxybutyrate CAS# 5405-41-4 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

HMIS Rating

Health hazard 1 Chronic Health Hazard Flammability 2 Physical 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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