Safety Data Sheet

The Natural Choice for Flavor and Fragrance Ingredients

HEALTH	3
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	**Butyric Acid, Natural**
Product Number	**0222100**
CAS-No.	**107-92-6**

1.2 Product Recommended Use **Flavorings**

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA
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 4), H227
Skin irritation (Category 1B), H314
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

2.2 GHS Label Elements, Including precautionary statements

Pictogram

Signal Statement **DANGER**

Hazard Statement(s)

H227	Flammable liquid and vapor
H314	Causes severe skin burns and eye damage
H412	Harmful to aquatic life with long lasting effects

Precautionary Statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264	Wash skin thoroughly after handling
P273	Avoid release to the environment

P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
P303+P361+P353	IF ON 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.
P310	Immediately call a POISON CENTER or doctor/physician
P363	Wash contaminated clothing before reuse.
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.
P405	Store locked up.
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	
Formula	$C_4H_8O_2$
Molecular Weight	88.11 g/mol
CAS-No	107-92-6
EC-No.	203-532-3
Index No.:	607-135-00-X

Hazardous Components

Component	Classification	Concentration
Butyric Acid	Flammable liquids (4), H227 Skin irritation (1B), H314 Serious eye damage (1), H318 Acute aquatic toxicity, (3), H402 Chronic aquatic toxicity, (3), H412	-

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
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: ACCIDENTIAL 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 and well-ventilated place. Containers which have been 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

Contains no substances 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	Wear appropriate tightly fitting safety goggles. Face shield (8-inch min). 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 butyl rubber gloves, 0.3m. 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 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	Stench, rancid butter
c	Odor Threshold	No data available
d	pH	3 at 10 g/l at 20°C
e	Melting Point /Freezing Point	Melting point/range -6 - -3°C

f	Boiling Point	164°C
g	Flash Point	77°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper explosion limit: 10% (V) Lower explosion limit: 2% (V)
k	Vapor pressure	0.57 hPa at 20°C
l	Vapor density	3.04 (Air=1.0)
m	Relative density @25°C	0.952-0.963
n	Water Solubility	Ca.50 g/l
o	Partition coefficient: n-octanol/water	log Pow: 0.79
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 Surface tension 26.74 mN/m at 20°C

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 No data available

10.4 Conditions to avoid Heat, Flames and Sparks

10.5 Incompatible materials Strong oxidizing agents

10.6 Hazardous decomposition products No data available

10.7 Further Information No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral- Rat	2,940 mg/kg
LC50-Inhalation	No data available
LD50-Dermal-Rabbit	6,083 mg/kg
Skin corrosion/irritation	Rabbit: Corrosive
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ Cell mutagenicity	Human: HeLa cell; DNA damage Human: Lymphocyte: DNA inhibition
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)	No data available
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
Signs and Symptoms of Exposure	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Cough, Shortness of Breath, Headache, Nausea Stomach irregularities – Based on Human Evidence.
Synergistic effects	No data available
RTECS:	ES5425000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

To Fish:
LC0- Leuciscus idus melanotus – 96 mg/l – 48hr

To daphnia and other aquatic invertebrates
EC50-Daphnia magna (Water Flea) 61.7 mg/l -24 Hr

12.2 Persistence and degradability

Biodegradability: Biotic Aerobic – Exposure time 5 days

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

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life. Avoid release to the environment.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Product:	According to local regulations
Packaging	According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)	UN Number: 2820	Class: 8	Packing Group III		
Proper Shipping Name	Butyric Acid				
Reportable Quantity (RQ)	5000 lbs				
Marine pollutant	No				
Poison Inhalation Hazard	No				
IMDG	UN Number: 2820	Class: 8	Packing Group III	EMS-No: F-A, S-B	
Proper Shipping Name	Butyric Acid				
Marine Pollutant	No				
IATA	UN Number: 2820	Class: 8	Packing Group III		
Proper Shipping Name	Butyric Acid				

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 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	Butyric Acid	CAS# 107-92-6	Rev. Date: 4/24/1993
Pennsylvania Right to Know components	Butyric Acid	CAS# 107-92-6	Rev. Date: 4/24/1993
New Jersey Right to Know components	Butyric Acid	CAS# 107-92-6	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 3
Chronic Health Hazard*
Flammability 2
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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