

Safety Data Sheet



HEALTH 3
FLAMMABILITY 2
REACTIVITY 0


Section 1: IDENTIFICATION

Product Name: **2-Methyl Butyric Acid, US, Natural**
 Product Number: **0269500NAT-R**
 Recommended Use: Flavorings
 Manufacturer: Aurochemicals
 7 Nicoll Street
 Washingtonville, NY 10992
 Emergency Telephone No.: 1-800-535-5053

Section 2: HAZARD(s) IDENTIFICATION

OSHA Hazards Combustible Liquid, Harmful by ingestion, Harmful by skin absorption, Corrosive
 Other hazards which do not result in classification Stench
 GHS Classification Flammable Liquids (Category 4)
 Acute toxicity, Oral (Category 4)
 Acute toxicity, Dermal (Category 4)
 Skin corrosion (Category 1B)
 Serious eye damage (Category 1)

GHS Label Elements, Including precautionary statements
 Pictogram or written description

Signal Word:  Danger

Hazard Statement
 H227 Combustible liquid
 H302+ Harmful if swallowed or
 H312 In contact with skin
 H314 Causes severe skin burns and eye damage

Precautionary Statement
 P280 Wear protective gloves/protective clothing/eye protection/face protection
 P305+ IF IN EYES: Rinse cautiously with water for several minutes
 P351+ Remove contact lenses if present and easy to do
 P338 Continue rinsing
 P310 Immediately call a POISON CENTER, or doctor/physician

HMIS Classification
 Health Hazard 3
 Flammability 2
 Physical hazard 0

Potential Health Effects
 Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
 Skin Harmful if absorbed through skin. Causes skin burns
 Eyes Causes eye burns
 Ingestion Harmful if swallowed,

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Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Component	2 Methylbutyric acid
Common Name:	
Synonyms:	
CAS #	116-53-0
EC#	204-145-2
EC-Index-No.:	N/A
Molecular Formula	C ₅ H ₁₀ O ₂

Section 4: FIRST AID MEASURES

General Advice	Consult physician. Show this safety data sheet to doctor in attendance. Move out of dangerous area.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and consult physician. Continue rinsing during transport to hospital.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water and wash with mild soap and warm water. Consult a physician.
Inhalation:	Provide Fresh Air, consult a physician
Ingestion:	Do Not Induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.. Seek medical advice and show this container or label to physician
Clothing:	Wash clothing and shoes before re-use

Section 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	For small (incipient) fires, used media such as alcohol foam, dry chemical or carbon dioxide. For large fires, apply water from as far away 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
Unusual fire and explosions hazards	Hazardous decomposition products formed under fire conditions-Carbon oxides.
Further Information	Use water spray to cool unopened containers.

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	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Absorb spills:	With absorbent, dispose of in appropriate container
Ventilate area	After sweep up, clean affected area

Section 7: HANDLING AND STORAGE

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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

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.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate, use a full face respirator with multi-purpose respirator cartridges as a back up to engineering controls.

Hand protection

When handling this product, chemically resistant Nitrile Rubber gloves should be worn.

Eye Protection

Tight fitting safety glasses, face shield (8" min)

Skin and body protection

Full suit protecting against chemicals. This type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practices. Wash hands after handling this product.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless liquid
Odor:	Pungent, Acrid odor, Stench
Boiling Point:	176°C
Flashpoint:	74°C
Melting Point:	N/A
Explosive Properties:	No information available
Lower Explosion Limit	1.2 Vol%
Upper Explosion Limit	5.7 Vol%
Ignition Temperature	420°C
Oxidizing properties:	Not oxidizing, Not Flammable
Vapor Pressure:	(20°C) 1 hPa
Specific Gravity @ 25°C:	0.932 – 0.939
Solubility in Water:	1mL is soluble in 1 ml 90% alcohol
Solubility in Organic Solvents:	Soluble

Section 10: STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

No data available

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Conditions to avoid
Materials to avoid
Hazardous decomposition products

Heat, Flames and sparks
Bases, Oxidizing Agents, Reducing Agents
Formed under fire conditions – Carbon oxides

Section 11: TOXICOLOGICAL INFORMATION

LD50 Oral, Rat	1,750 mg/kg	Remarks: Gastrointestinal: Changes in structure or function of salivary glands. Diarrhea other changes.
LD50 Dermal, Rabbit	1,367 mg/kg	Remarks: Sense Organs and Special Senses (Nose, Eye, Ear and taste) Olfaction: Other changes Behavioral Ataxia. Gastrointestinal: Other changes
LD50 Inhalation	No information available	
Other information on acute toxicity	No data available	
Skin corrosion/irritation	No data available	
Serious eye damage/eye irritation	No data available	
Germ cell mutagenicity	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 0.1% 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 exposure (GHS)	No data available	
Potential health effects	Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
	Ingestion	Harmful if swallowed
	Skin	Harmful if absorbed through skin. Causes skin burns.
	Eyes	Causes eye burns
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.
Synergistic effects	No data available	
RTECS	EK7897000	

Section 12: ECOLOGICAL INFORMATION

Toxicity
No information available Do not allow to enter water, drain or soil.

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

DOT (US) UN3265 Class 8 Packing Group III.
 Proper shipping name Corrosive Liquid, Acidic, Organic n.o.s (2-Methylbutyric acid)
 Marine Pollutant No
 Poison Inhalation Hazard No

IMDG UN3265 Class 8 Packing Group III. EMS-No. F-A, S-B
 Proper shipping name CORROSIVE LIQIOD, ACIDIC, ORGANIC N.O.S. (2-Methylbutyric acid_
 Marine Pollutant No

IATA UN3265 Class 8 Packing Group III.
 Proper shipping name Corrosive Liquid, Acidic, Organic n.o.s (2-Methylbutyric acid)

Section 15: REGULATORY INFORMATION

OSHA Hazards Combustible Liquid, Harmful by ingestion, Harmful by skin absorption, Corrosive
 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 Fire hazard, Acute health hazard
 Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act
 Pennsylvania Right To Know Components 2-Methylbutyric Acid CAS# 116-53-0 Rev. Date:
 New Jersey Right To Know Components 2-Methylbutyric Acid CAS# 116-53-0 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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