

Safety Data Sheet

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name: **Methyl Thiobutyrate 10% in ETOH, Natural**
 Product Number: **0331000**
 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**

Pictogram or written description



Signal Word:

DANGER

Hazard Statement:

H225 **Highly Flammable liquid and vapor**
 H315 **Causes skin irritation**
 H319 **Causes serious eye irritation**
 H335 **May cause drowsiness or dizziness**

Precautionary Statement

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**
 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**

P261 **Avoid breathing dust/fume/gas/mist/vapors/spray**
 P305+P351+P338 **IF IN EYES: Rinse cautiously with water for several minutes, Remove contact lenses if present and easy to do. Continue rinsing**

P403+P235 **Store in a well ventilated place. Keep cool**
 P501 **Dispose of contents/container to an approved waste disposal plant**
 P370+P378 **In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction**

HMIS Classification

Health Hazard **2**

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Chronic Health Hazard*
Flammability 3
Physical Hazards 0

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	S-Methyl butanethioate
	Ethyl Alcohol
Common Name:	Methyl thiobutyrate 10% in Ethanol Nat
Synonyms:	S-Methyl thiobutanoate in EtOH
CAS #	2432-51-1/64-17-5
EC#	219-407-1/200-578-6
Formula	C ₅ H ₁₀ OS

Hazardous Component(s)

S-Methyl butanethioate	Flammable Liquid (H226)	10%
Ethyl Alcohol	Flammable Liquid (H227)	90%

Section 4: FIRST AID MEASURES

General Advise:	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 for at least 15 minutes and seek medical advice.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then 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, show this container or label to attending physician.
Clothing contamination:	Remove contaminated clothing and wash before reuse.

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	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Firefighting Procedures:	Do not stay in danger zone without self contained breathing apparatus Prevent fire-fighting water from entering surface or ground water Cool unopened containers with water spray from a safe distance.
Other Information	Hazardous decomposition products formed under fire conditions – Carbon oxides

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions	Use personal protection equipment. Evacuate personnel to safe areas. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental-protected measures	Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.
Procedures for cleaning / absorption	Take up with liquid absorbent material. Place in appropriate container and keep closed until disposal.
Ventilate area	After clean up, wash spill area and ventilate the area well.

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Section 7: HANDLING AND STORAGE

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.

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. Keep away from heat and ignition sources at Max 20°C.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Component	CAS No-	Value	Control Parameters	Basis
Ethanol	64-17-5	TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	REMARKS	Upper Respiratory Tract Irritation Confirmed animal carcinogen with unknown relevance to humans		
		TWA	1,000 ppm 1,900 mg/m3	USA. Occupational Exposure Limits (SHA)- Table Z1 Limits for Air Contaminates
		The value in mi/m3 is approximate		
		TWA	1,000 ppm 1,900 mg/m3	USA. NIOSH Recommended Exposure Limits

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.

Body Protection:

Complete suite protecting against chemicals, made of flame retardant antistatic material 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 full face respirator with multi-purpose combination respirator cartridges as a backup to engineering controls.

Eye Protection:

Wear appropriate tightly fitting safety goggles. Face shield (8-inch minimum) NIOSH tested and approved.

Hand Protection:

Wear chemically resistant gloves of Nitrile rubber.

Industrial Hygiene:

Handle in accordance with good industrial hygiene and safety practice. Change contaminated clothing and wash before reuse. Wash hands after working with product. Application of barrier cream is recommended.

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Clear Liquid
Color:	Colorless to pale yellow liquid
Odor:	Alcoholic; sour cabbage
Boiling Point:	78°C
Flashpoint:	16°C
Melting Point	No data available
Ignition temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure:	No data available
Specific Gravity @ 25°C:	0.800-0.850
Solubility:	Soluble in water and most organic solvents

Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid	Heat, Flames and Sparks.
Materials to avoid	Strong oxidizing agents, strong bases.
Hazardous decomposition products:	Fumes formed under fire conditions – carbon oxides, sulphur oxides
Further information	No data available

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	
LD50, Oral -Rat	7,060 mg/kg Remarks: Lungs, Thorax or Respiration: Other changes
LC50 Inhalation - Rat	20,000 ppm 10 hr
LD50 Dermal	No data available
Other information on acute toxicity	No data available
Skin corrosion/irritation	Rabbit-No skin irritation – 24 hr (OECD Test Guideline 404)
Serious eye damage/eye irritation	Rabbit- Mild eye irritation -24 hr (OECD Test Guideline 405)
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	Mouse- Oral Tumorigenic: Equivocal Tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkin's Disease.
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.
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.

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Reproductive toxicity	Human-Female-Oral Effects on Newborn: Apgar score (human only). Drug dependence. Other neonatal measures or effects.
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	Central nervous system depression, Narcosis, Damage to the heart. Heart irregularities –Based on Human evidence Stomach irregularities – Based on Human evidence
Synergistic effects RTECS:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. No data available KQ6300000

Section 12: ECOLOGICAL INFORMATION

Toxicity	No data available
Other adverse effects	No data available

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

DOT (US)	UN 1170 Class 3 Packing Group II
Proper shipping name	Ethanol Solutions
Reportable Quantity (RQ)	
Marine pollutant	No
Poison Inhalation Hazard	No
IMDG-Classification	UN 1170 Class 3 Packing Group II EMS-No.: F-E S-D
Proper shipping name	Ethanol Solutions
Marine pollutant	No
IATA-Classification	UN 1170 Class 3 Packing Group II
Proper shipping name	Ethanol Solutions

Section 15: REGULATORY INFORMATION

OSHA Hazards	Flammable liquid
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

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313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know components

Ethanol CAS#64-17-5 Rev. Date: 3/1/2007

Pennsylvania Right to Know components

S-Methyl butanethioate CAS# 2432-51-1 Rev. Date:
Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007

New Jersey Right to Know components

S-Methyl butanethioate CAS# 2432-51-1 Rev. Date:
Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007

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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