

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

Section 1: IDENTIFICATION


Product Name: **Methyl Thiobutyrate 5% in PG, 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	Irritant
Pictogram or written description	
Signal Word:	Warning
Hazard Statement:	H315 Causes skin irritation H318 Causes serious eye damage H335 May cause drowsiness or dizziness
Precautionary Statement	P233 Keep container tightly closed 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 Chronic Health Hazard* Flammability 1 Physical Hazards 0

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	S-Methyl butanethioate Propylene glycol
Common Name:	Methyl thiobutyrate 5% in PG Nat
Synonyms:	S-Methyl thiobutanoate in PG Nat
CAS #	2432-51-1/57-55-6
EC#	219-407-1/200-338-0
Formula	C ₅ H ₁₀ OS

Hazardous Component(s)

S-Methyl butanethioate	Flammable Liquid (H226)	5%
Propylene glycol	95%	

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: ACCIDENTAL 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.

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
Propane-1,2-diol	57-55-6	TWA	10 mg/m ³	USA. Workplace Environmental Exposure Levels (WEEL)

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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:

Viscous liquid

Color:

Colorless to pale yellow viscous liquid

Odor:

Sour cabbage

Boiling Point:

263°C

Flashpoint:

89°C

Melting Point

No data available

Safety Data Sheet

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:	1.025-1.033
Solubility:	Soluble in water and most organic solvents

Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Materials to avoid	No data available
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	20,000 mg/kg
LC50 Inhalation - Rat	No data available
LD50 Dermal – Rabbit	20,800 mg/kg
LD50 Intramuscular –Rat	14 g/kg
LD50 Intravenous – Dog	28 g/kg
LD50 Intraperitoneal-Rat	6,660 mg/kg
LD50 Intravenous-Rat	6,423 mg/kg
LD50 Intraperitoneal – Mouse	9,718 mg/kg
	Remarks: Lungs, Thorax, or Respiration: Chronic pulmonary edema, kidney, ureter, Bladder: Changes in both tubules and glomeruli. Blood: Changes in Spleen
LD50 Subcutaneous – Mouse	17,370 mg/kg
	Remarks: Behavioral: Change in motor activity (specific assay) Behavioral: Muscle contraction or spasticity. Cyanosis
LD50 Intravenous-Mouse	6,630 mg/kg
LD50 Intravenous-Rabbit	6,500 mg/kg
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	
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.

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
Potential Health effects	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed
Skin	May be harmful if absorbed through skin. Causes skin irritation
Eyes	Causes eye irritation
Signs and Symptoms of Exposure	Gastrointestinal disturbance. Nausea, Headache, Vomiting Central nervous system depression To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Synergistic effects	No data available
RTECS:	TY2000000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	<u>To Fish:</u> Mortality NOEC- Pimephales promelas (fathead minnow) 52,930 mg/l 96 h <u>To Daphnia and other aquatic invertebrates</u> Mortality NOEC – Daphnia 13.020 mg/l 48 h EC-50 Daphnia magna (water flea) >10,000 mg/l 48 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

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

Section 14: TRANSPORT INFORMATION

DOT (US)	Not dangerous goods
IMDG-Classification	Not dangerous goods
IATA-Classification	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, 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	Acute Health Hazard, Chronic Health Hazard
Massachusetts Right to Know components Pennsylvania Right to Know components	No components are subject to the Massachusetts Right to Know Act S-Methyl butanethioate CAS# 2432-51-1 Rev. Date: Propane-1,2-diol CAS# 57-55-6 Rev. Date: 3/1/2007
New Jersey Right to Know components	S-Methyl butanethioate CAS# 2432-51-1 Rev. Date: Propane-1,2-diol CAS# 57-55-6 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

HMIS Rating

Health hazard	0
Chronic Health Hazard	
Flammability	1
Physical Hazard	0

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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