

HEALTH	3
FLAMMABILITY	3
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	2-Methyl-3-Furanthiol 1% in ETOH, Natural
Product Number	0318801
CAS-No.	28588-74-1/64-17-5

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA
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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 Liquid (Category 2&3) H225; H226 Acute toxicity, Oral (Category 3), H302
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2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

Danger

Hazard Statement(s)

H225	Highly flammable liquid and vapor
H318	Causes serious eye damage
H302	Harmful if swallowed

Precautionary Statement(s)

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
P264	Wash skin thoroughly after handling

P270	Do not eat, drink or smoke when handling this product
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P303+P361+P353	IF IN SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P330	Rinse mouth
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

Component #1: 2-Methylfuran-2-thiol
Component #2: Ethanol

Formula	C ₅ H ₆ OS
Molecular Weight	114.17 g/mol
CAS-No	28588-74-1/64-17-5
EC-No.	249-094-7/200-578-6

Hazardous Components

Component	Classification	Concentration
2-Methylfuran-3-thiol	Flammable liquids (Category 3), H226 Acute toxicity Oral (Category 3), H301	1%
Ethanol	Flammable liquids (Category 2), H225 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhaled (Category 2), H300	99%

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** No data available
- 5.3 **Advice for fire fighters** Wear self contained breathing apparatus for firefighting if necessary.
- 5.4 **Further information** Use water spray to cool unopened containers.

Section 6: ACCIDENTAL 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. Ensure good ventilation (appropriate exhaust) at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- 7.2 **Conditions for Safe storage** Keep container tightly closed in a dry, cool and well-ventilated place.
- 7.3 **Specific End use(s)** Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters**
Components with workplace control parameters

Component	CAS No.	Value	Control Parameters	Basis
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Ethanol	64-17-5	TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks: Upper Respiratory Tract Irritation				
TWA		1,000 ppm 1,900 mg/m ³		USA. Occupational Exposure Limits (OSHA)-Table Z-1 Limits for Air Contaminates
The value in mg/m ³ is approximate				
TWA		1,000 ppm 1,900 mg/m ³		USA. NIOSH Recommended Exposure Limits

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** Face shield and safety glasses. 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. 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 of flame retardant anti-static material, 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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- a Appearance Pale yellow to orange pink liquid
- b Odor Roasted Meaty - Stench
- c Odor Threshold No data available
- d pH No data available
- e Melting Point /Freezing Point Melting Point: -114°C

f	Boiling Point	80°C
g	Flash Point	18°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper explosion limits 19.0% (V) Lower explosion limits 3.3% (V)
k	Vapor pressure	59.5 hPa at 20°C
l	Vapor density	2.63 (Air = 1.0)
m	Relative density @20°C	0.785-0.820
n	Solubility	Soluble in water and most organic solvents
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	363°C
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	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	Vapors may form explosive mixture with air
10.4	Conditions to avoid	Heat, flames and sparks, Extremes of temperature and direct sunlight
10.5	Incompatible materials	Alkali metals, Ammonia, Oxidizing agents, Peroxides
10.6	Hazardous decomposition products	No data available
10.7	Further Information	No data available

Section 11: TOXICOLOGICAL INFORMATION

Safety Data Sheet

11.1 Information on toxicological effects

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
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: Changes in motor activity (specific assay); Muscle contraction or spasticity; Cyanosis
LD50-Intravenous-Mouse	6,630 mg/kg
LD50-Intravenous-Rabbit	6,500 mg/kg
Skin corrosion/irritation	Human: Mild skin irritation – 7 days
Serious eye damage/eye irritation	Rabbit: May cause mild eye irritation
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.
	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	Nausea, Headache, Vomiting; Gastrointestinal disturbance. Central nervous system depression
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Synergistic effects	No data available
RTECS:	Not available

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	<u>To Fish:</u> Mortality NOEC: Pimephales promelas (flathead minnow) 52.930 mg/l - 96 h
	<u>To Daphnia and other aquatic invertebrates</u> Mortality NOEC: Daphnia 13,020 mg/l -48 h EC50: Daphnia magna (water flea) >10,000 mg/l - 48 h
	No data available
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

13.1 Disposal methods	
Product:	According to local regulations
Packaging	According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)	UN Number: 1170 Class: 3 (6.1) Packing Group II
Proper Shipping Name	Ethanol Solutions
Reportable Quantity (RQ)	No
Marine pollutant	No
Poison Inhalation Hazard	No
IMDG	UN Number: 1170 Class: 3 (6.1) Packing Group II EMS-No: F-E, S-D
Proper Shipping Name	ETHANOL SOLUTION (Ethyl alcohol solutions)
Marine Pollutant	No
IATA	UN Number: 1170 Class: 3 (6.1) Packing Group II
Proper Shipping Name	Ethanol solutions

Section 15: REGULATORY INFORMATION

Safety Data Sheet

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	Ethanol	CAS# 64-17-5	Rev. Date: 3/1/2007
Pennsylvania Right to Know components	2-Methylfuran-3-thiol Ethanol	CAS# 28588-74-1 CAS# 64-17-5	Rev. Date: Rev. Date: 3/1/2007
New Jersey Right to Know components	2-Methylfuran-3-thiol Ethanol	CAS# 28588-74-1 CAS# 64-17-5	Rev. Date: 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	2
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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