

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	<b>2-Methyl-3-Furanthiol 1% in PG, Natural</b>
Product Number	<b>0318801</b>
CAS-No.	<b>28588-74-1/57-55-6</b>

### 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)	Combustible liquids (Category 4), H227 Acute toxicity Oral (Category 3), H302
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### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

**Warning**

Hazard Statement(s)

H227	Combustible liquid
H302	Harmful if swallowed
H332	Harmful if inhaled

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: Propylene glycol (1,2-Propanediol)

Formula	C <sub>5</sub> H <sub>6</sub> OS
Molecular Weight	114.17 g/mol
CAS-No	28588-74-1/57-55-6
EC-No.	249-094-7/200-338-0

#### Hazardous Components

Component	Classification	Concentration
2-Methylfuran-3-thiol	Flammable liquids (Category 3), H226 Acute toxicity Oral (Category 3), H301	1%
Propane-1,2-diol	<b>Not classified as hazardous</b>	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 For small (incipient) fires, use media such as alcohol resistant foam, dry chemical or carbon dioxide. For large fires, apply water from as far 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.
- 5.2 **Special hazards arising from the substance or mixture** Carbon oxides, Sulphur oxides
- 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.
- 7.2 **Conditions for Safe storage** Keep container tightly closed in a dry, cool and well-ventilated place. Hygroscopic
- 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
Propane-1,2-diol	57-55-6	TWA	10 mg/m <sup>3</sup>	USA. Workplace Environmental Exposure Levels (WEEL)

## 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	Safety glasses with side shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) for EN 166 (EU).
Skin protection	Wear chemically resistant Nitrile rubber gloves, 0.11mm. 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	No data
f	Boiling Point	57-60°C
g	Flash Point	No data available
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	No data available
k	Vapor pressure	No data available
l	Vapor density	2.63 (Air = 1.0)
m	Relative density @25°C	1.035-1.037
n	Solubility	Insoluble in water, soluble in most organic solvents
o	Partition coefficient: n-octanol/water	No data available
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** 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 for explosive mixture with air

**10.4 Conditions to avoid** Air, Light, Heat, flames and sparks

**10.5 Incompatible materials** Strong oxidizing agents, strong bases. Strong acids  
Acid chlorides, Acid anhydrides, Chloroformates, Reducing 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 20,000 mg/kg  
LC50-Inhalation 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: 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

To Fish:

Mortality NOEC: Pimephales promelas (flathead minnow) 52.930 mg/l - 96 h

To Daphnia and other aquatic invertebrates

Mortality NOEC: Daphnia 13,020 mg/l -48 h

EC50: Daphnia magna (water flea) &gt;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****13.1 Disposal methods**

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

**Section 14: TRANSPORT INFORMATION****DOT (US)**

Proper Shipping Name: UN Number: 1228 Class: 3 (6.1) Packing Group III  
Reportable Quantity (RQ): Mercaptans, liquid, flammable, toxic n.o.s.  
Marine pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

Proper Shipping Name: UN Number: 1228 Class: 3 (6.1) Packing Group III EMS-No: F-E, S-D  
Marine Pollutant: MERCAPTANS, LIQIID, FLAMMABLE, TOXIC, N.O.S. (2-Methylfuran-3-thiol)  
No

**IATA**

Proper Shipping Name: UN Number: 1228 Class: 3 (6.1) Packing Group III  
Mercaptans, liquid, flammable, toxic n.o.s. (2-Methylfuran-3-thiol)

**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: No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know components: 2-Methylfuran-3-thiol CAS# 28588-74-1 Rev. Date:

New Jersey Right to Know components: 2-Methylfuran-3-thiol CAS# 28588-74-1 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****HMIS Rating**

Health hazard 2

# Safety Data Sheet

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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