

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	<b>2-Methyl-3-Furanthiol, Natural</b>
Product Number	<b>0318800</b>
CAS-No.	<b>28588-74-1</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)	Flammable liquids (Category 3), H226 Acute toxicity Oral (Category 3), H301
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### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

**Danger**

Hazard Statement(s)

H226	Flammable liquid and vapor
H301	Toxic 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

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

#### Hazardous Components

Component	Classification	Concentration
2-Methylfuran-3-thiol	Flammable liquids (Category 3), H226 Acute toxicity Oral (Category 3), H301	<= 100%

### 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 No data available

attention and special treatment needed.

## 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

## 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. Discharge into the environment must be avoided.

## 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
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	No data available
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	3.94 (Air = 1.0)
m	Relative density @25°C	1.105-1.130
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
<b>9.2</b>	<b>Other Safety Information</b>	No data available

## Section 10: STABILITY AND REACTIVITY

<b>10.1</b>	<b>Reactivity</b>	No data available
<b>10.2</b>	<b>Chemical Stability</b>	Stable under recommended storage conditions
<b>10.3</b>	<b>Possibility of Hazardous reactions</b>	Vapors may form explosive mixture with air
<b>10.4</b>	<b>Conditions to avoid</b>	Air, Light Heat, flames and sparks
<b>10.5</b>	<b>Incompatible materials</b>	Strong oxidizing agents, strong bases. Strong acids
<b>10.6</b>	<b>Hazardous decomposition products</b>	No data available
<b>10.7</b>	<b>Further Information</b>	No data available

## Section 11: TOXICOLOGICAL INFORMATION

<b>11.1</b>	<b>Information on toxicological effects</b>	
	<b>Acute Toxicity</b>	
	LD50-Oral- Rat	100 mg/kg

LC50-Inhalation	No data available
LD50-Dermal-Rabbit	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ Cell mutagenicity	No data available
Carcinogenicity	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
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
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:	LU6235000

## Section 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	No data available
<b>12.2 Persistence and degradability</b>	No data available
<b>12.3 Bioaccumulative potential</b>	No data available

<b>12.4 Mobility in soil</b>	No data available
<b>12.5 Results of PBT and vPvB assessment</b>	PBT/vPvB assessment not available as chemical safety assessment not required / not conducted
<b>12.6 Other adverse effects</b>	No data available

## Section 13: DISPOSAL CONSIDERATIONS

<b>13.1 Disposal methods</b>	
Product:	According to local regulations
Packaging	According to local regulations

## Section 14: TRANSPORT INFORMATION

<b>DOT (US)</b>	UN Number: 1228 Class: 3 (6.1) Packing Group III
Proper Shipping Name	Mercaptans, liquid, flammable, toxic n.o.s.
Reportable Quantity (RQ)	No
Marine pollutant	No
Poison Inhalation Hazard	No
<b>IMDG</b>	UN Number: 1228 Class: 3 (6.1) Packing Group III EMS-No: F-E, S-D
Proper Shipping Name	MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. (2-Methylfuran-3-thiol)
Marine Pollutant	No
<b>IATA</b>	UN Number: 1228 Class: 3 (6.1) Packing Group III
Proper Shipping Name	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  
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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