

# Safety Data Sheet

|              |   |
|--------------|---|
| HEALTH       | 1 |
| FLAMMABILITY | 1 |
| REACTIVITY   | 0 |

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

|                |   |
|----------------|---|
| Product Name   | Furfuryl Mercaptan 1% in Triacetin, Natural |
| Product Number | 0249301                                     |
| CAS-No.        | 98-02-2 /102-76-1                           |

### 1.2 Product Recommended Use

Flavorings

### 1.3 Preparation Information

|         |  |
|---------|--|
| Company | Aurochemicals<br>7 Nicoll Street<br>Washingtonville, NY 10992- USA |
|---------|--|

|           |              |
|-----------|--------------|
| 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) | Acute toxicity, Oral (Category 4)<br>Skin irritation (Category 2)<br>Skin sensitization (Category 4) |
|--|--|

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement  
Hazard Statement(s)

Warning

|                            |                |   |
|----------------------------|----------------|---|
|                            | H302           | Harmful if swallowed  |
|                            | H315           | Causes skin irritation  |
|                            | H317           | May cause an allergic skin reaction   |
| Precautionary Statement(s) | P264           | Wash skin thoroughly after handling.  |
|                            | P270           | Do not eat, drink or smoke when using this product.   |
|                            | P280           | Wear protective gloves/protective clothing/eye protection/face protection                               |
|                            | P301+P312      | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.                              |
|                            | P330           | Rinse mouth.  |
|                            | P303+P361+P353 | IF ON SKIN (or hair): Remove/ Take off immediately contaminated clothing. Rinse skin with water/shower. |
|                            | P370+P378      | In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.                   |

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P403+P233 Store in a well ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container to an approved waste disposal plant.

2.3 HNOC (Hazards not otherwise classified or not covered by GHS)

STENCH

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms #1 Furfuryl mercaptan  
Formula #2 Triacetin  
Molecular Weight Furfuryl Mercaptan Mixture (Triacetin)  
CAS-No  $C_5H_6OS$  /  $C_9H_{14}OS$   
EC-No. 114.17 g/mol / 218.2 g/mol  
98-02-2 / 102-76-1  
202-628-2

### Hazardous Components

| Component           | Classification              | Concentration |
|---------------------|-----------------------------|---------------|
| 2-Furylmethanethiol | Flammable liquids (3), H226 | 1%            |
| Triacetin           |                             | 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.  
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 Flammable in presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surfaces. No smoking. Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

### 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. Emits toxic fumes under fire conditions. Contain escaping vapors with water. Prevent fire fighting water from entering surface water or ground water.

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## 5.4 Further information

Use water spray to cool unopened containers. May form explosive mixtures with air at ambient temperatures. Development of hazardous gases or vapors possible in the event of fire.

## 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 and well-ventilated place. Containers which have been opened must be carefully resealed and kept upright to prevent leakage.  
**Handle and store under inert gas.**  
**Air and moisture sensitive.**  
**May darken on storage**
- 7.3 Specific End use(s)** Flavorings

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**  
No 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** Wear appropriate tightly fitting safety goggles. NIOSH tested and approved.
- 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

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contaminated gloves after use. Wash and dry hands.

**Body protection** Complete suit 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                             | Reddish brown viscous liquid                         |
| b | Odor                                   | Characteristic unpleasant, sulfurous                 |
| c | Odor Threshold                         | No data available                                    |
| d | pH                                     | No data available                                    |
| e | Melting Point /Freezing Point          | No data available                                    |
| f | Boiling Point                          | No data available                                    |
| g | Flash Point                            | >110°C closed cup                                    |
| 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                          | >1 (Air=1)   |
| m | Relative density @25°C                 | 1.1525-1.1545  |
| 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

|  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | No data available                                       |
| <b>10.2 Chemical Stability</b>                 | Stable under recommended storage conditions             |
| <b>10.3 Possibility of Hazardous reactions</b> | No data available                                       |
| <b>10.4 Conditions to avoid</b>                | Heat, Flames and Sparks                                 |
| <b>10.5 Incompatible materials</b>             | Strong oxidizing agents, reducing agents, Alkali metals |
| <b>10.6 Hazardous decomposition products</b>   | Carbon oxides, sulfur oxides, hydrogen sulfide gas      |
| <b>10.7 Further Information</b>                | No data available                                       |

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## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

|                                   |                   |
|-----------------------------------|-------------------|
| LD50-Oral                         | No data available |
| LC50-Inhalation                   | No data available |
| LD50-Dermal                       | No data available |
| LD50-Intraperitoneal-Mouse        | 100 mg/kg         |
| 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

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 Rat-Oral: Paternal Effects: Testes, epididymis, sperm duct

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 Nausea, Headache, Vomiting.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity 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 Possible hazardous short term degradation products are not likely. However, long term degradation products may arise. Do not allow to enter water, drain or soil.

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1 Disposal methods

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Product:  
Packaging

According to local regulations  
According to local regulations

## Section 14: TRANSPORT INFORMATION

### DOT (US)

UN number: 3336 Class: 3 Packing group: III  
Proper shipping name: Mercaptans, liquid, flammable, n.o.s.  
Reportable Quantity (RQ):  
Poison Inhalation Hazard: No

### IMDG

UN number: 3336 Class: 3 Packing group: III EMS-No: F-E, S-D  
Proper shipping name: MERCAPTANS, LIQUID, FLAMMABLE, N.O.S. (2-Furylmethanethiol)

### IATA

UN number: 3336 Class: 3 Packing group: III  
Proper shipping name: Mercaptans, liquid, flammable, n.o.s. (2-Furylmethanethiol)

## 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   |              |            |
| Massachusetts Right to Know components | No components are subject to the Massachusetts Right to Know Act  |              |            |
| Pennsylvania Right to Know components  | 2-Furylmethanethiol   | CAS# 98-02-2 | Rev. Date: |
| New Jersey Right to Know components    | 2-Furylmethanethiol   | CAS# 98-02-2 | 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 1  
Chronic Health Hazard  
Flammability 1  
Reactive Hazard 0

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