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
7 Nicoll Street
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)
Skin irritation (Category 2)
Skin sensitization (Category 4)

2.2  GHS Label Elements, Including precautionary statements

Pictogram

Warning

Signal Statement
Hazard Statement(s)

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.
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)

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1 Furfuryl mercaptan</td>
<td>Flammable liquids (3), H226</td>
<td>1%</td>
</tr>
<tr>
<td>#2 Triacetin</td>
<td></td>
<td>99%</td>
</tr>
</tbody>
</table>

Synonyms
Furfuryl Mercaptan Mixture (Triacetin)

Formula
C₅H₆OS / C₉H₁₄O₁₇

Molecular Weight
114.17 g/mol / 218.2 g/mol

CAS-No.
98-02-2 / 102-76-1

EC-No.
202-628-2

Hazardous Components

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.

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.

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 | Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday. |
| 8.2.1 | Appropriate Engineering Controls | 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. |
| 8.2.2 | Personal protective equipment | Eye/face protection: Wear appropriate tightly fitting safety goggles. NIOSH tested and approved. |
| 8.2.3 | | 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. |
| 8.2.4 | | 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

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

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute Toxicity
LD50-Oral No data available
Safety Data Sheet

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

Section 14: TRANSPORT INFORMATION

DOT (US)
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

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.

Issued by: Aurochemicals
7 Nicoll Street

Contact Person: Deo N. Persaud

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