

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Furfuryl Mercaptan 10% in Triacetin, Natural
Product Number	0249310
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
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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
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2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement **WARNING**

Hazard Statement(s)	H226 Flammable liquid and vapor
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Precautionary Statement(s)	P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
	P233 Keep container tightly closed
	P243 Take precautionary measures against static discharge
	P280 Wear protective gloves/protective clothing/eye protection/face protection
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+P235	Store in a well ventilated place. Keep cool
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	#1 Furfuryl mercaptan #2 Triacetin
Synonyms	Furfuryl Mercaptan Mixture (Triacetin)
Formula	C ₅ H ₆ OS / C ₉ H ₁₄ OS
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

Component	Classification	Concentration
2-Furylmethanethiol	Flammable liquids (3), H226	10%

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.
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: ACCIDENTIAL 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.
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- 6.2 Environment precautions** Beware of vapors accumulating to form explosive concentrations. **Vapors can accumulate in low areas.**
- 6.3 Methods and materials for containment and clean up** 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.
- 6.4 Specific end use(s)** Contain spillage. Wet Sweep up with broom and place in a suitable, closed container for disposal.
- 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 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

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
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

Specific target organ toxicity-single exposure (GHS)

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

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

Safety Data Sheet

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

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:	Contact Person:
Aurochemicals	Deo N. Persaud
7 Nicoll Street	Revised Date: 8/11/2022
Washingtonville, NY 10992 USA	