

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Methyl Mercaptan 1% in TEC, Natural
Product Number	0271601
CAS-No.	74-93-1 / 77-93-0

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)	Acute toxicity (Category 4) H302
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2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement **Warning**

Hazard Statement(s)	H303+H313	May be harmful if swallowed or in contact with skin.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H335	May cause respiratory irritation.

Precautionary Statement(s)	P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
	P264	Wash skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product
	P280	Wear protective gloves/ eye protection/ face protection.
	P302+P352	IF ON SKIN: Wash with plenty of soap and water.
	P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305+P351+	IF SWALLOWED: Call a POISON CENTER or doctor/ Physician if

P358 you feel unwell.
 P330 Rinse mouth.
 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) None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonym Methanethiol / Citric Acid Triethyl Ester
 Formula $\text{CH}_4\text{S} / \text{C}_{12}\text{H}_{20}\text{O}_7$
 Molecular Weight 48.11 g/mol / 276.28 g/mol
 CAS-No 74-93-1 / 77-93-0

Hazardous Components

Component	CAS #	Concentration
Methanethiol	74-93-1	~1%
Triethyl Citrate	77-93-0	~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 If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Consult physician in case of complaints

Contact with skin: Generally, does not irritate the skin.

Contact with eyes: Remove contact lenses if present and easy to do. Flush opened eyes for several minutes with running water,

Ingestion: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms persist consult doctor

Clothing contamination: Remove contaminated clothing and wash before reuse.

4.2 Most important symptoms and effects both acute and delayed No data available

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 Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. Do not use a solid water stream as it may scatter and spread fire.

- 5.2 Special hazards arising from the substance or mixture** No further relevant information available
- 5.3 Advice for fire fighters** Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions. Do not breathe fumes. Cool endangered receptacles with water spray. Do not let fire fighting water enter sewage system
- 5.4 Further information** No data available

Section 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Avoid contact with skin and eyes. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas keeping unprotected personnel away from area, ventilate closed spaces before entering them.
- 6.2 Environment precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge to the environment must be avoided
- 6.3 Methods and materials for containment and clean up** Collect spillage with absorbent material and pick up with shovel. Keep in suitable closed container for hazardous waste disposal. Ensure adequate ventilation.
- 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** No special precautions are necessary if used correctly. Keep ignition sources away - No smoking. Protect against electrostatic charges
- 7.2 Conditions for Safe storage** Keep container tightly closed in a dry, cool and well-ventilated place. Handle container with care. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Temperature: Max 4^oC
- 7.3 Specific End use(s)** Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters : Components with limit values that require monitoring at the workplace

Components	CAS#	Value	Control Parameters	Basis
Methanethiol	74-93-1	PEL C	10 ppm	The lists that were valid during the creation were used as a basis
		REL C	0.5* ppm / *15 min	
		TLV	0.5 ppm	

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. Explosion proof ventilation equipment to stay below exposure limits.

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 Tightly sealed safety goggles. 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 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	Body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substances at the specific work place.
Respiratory protection	Respiratory protection not usually required. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure	Prevent further 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	Colorless to pale yellow viscous liquid
b	Odor	Cabbage
c	Odor Threshold	No data available
d	pH	Neutral
e	Melting Point /Freezing Point	Melting point: -68°C
f	Boiling Point	~263°C
g	Flash Point	~89°C
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Lower: 2.6 % Vol Upper: 12.6 % Vol
k	Vapor pressure	0.11 hPa @ 20°C
l	Vapor density	N/A
m	Relative density @20°C	1.03-1.10
n	Solubility	Miscible with water, soluble in and most organic solvents
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	Product is not self igniting
q	Decomposition Temp.	Not determined
r	Viscosity	No data available
s	Explosive properties	Product is not explosive.
t	Oxidizing properties	No data available

9.2	Other Safety Information	Solvent content: Organic solvents 99%
		VOC content: N/A

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	No data available
10.5	Incompatible materials	No data available
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	No data available
Skin corrosion/irritation	Irritant to skin and mucous membranes
Serious eye damage/eye irritation	Irritating effect
Respiratory or skin sensitization	No data available
Germ Cell mutagenicity	No data available
Carcinogenicity	
	IARC None of the ingredients is listed.
	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	This product is not expected to cause reproductive or developmental effects
Developmental toxicity	No data available
Specific target organ toxicity-single exposure (GHS)	Not classified
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
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	No data available
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Safety Data Sheet

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 General Notes	Water hazard class 3 (Self assessment) extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

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 1064 Class: 2.3 Packing Group III
Proper Shipping Name:	Methyl Mercaptan Solution in Triethyl citrate, n.o.s.
Marine Pollutant:	No
IMDG	UN 1064 Class: 2.3 Packing Group III
Proper Shipping Name:	Methyl Mercaptan Solution in Triethyl citrate, n.o.s.
Marine Pollutant:	No
IATA	UN 1064 Class: 2.3 Packing Group III
Proper Shipping Name:	Methyl Mercaptan Solution in Triethyl citrate, n.o.s.

Section 15: REGULATORY INFORMATION

Section 355 (Extremely Hazardous Substances):	Methanethiol Cas# 74-93-1
SARA 313 Components	Methanethiol Cas# 74-93-1
TSCA (Toxic Substances Control Act)	All ingredients are listed
California Prop. 65 components	This product does not contain any chemical known to the 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
Physical 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.

Safety Data Sheet



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