



HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

#### Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers Product Name Product Number CAS-No.

Methional 1% in Triacetin, Natural 0274701 3268-49-3 / 102-76-1

- 1.2 Product Recommended Use
- **1.3 Preparation Information** Company

Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA

Telephone Fax 845-496-6065 845-496-6248

Flavorings

1.4 Emergency Telephone Number

1-800-535-5053 International - 1-352-323-3500 collect

### Section 2: HAZARD(s) IDENTIFICATION

#### 2.1 Classification of the substance or mixture

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4) Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Skin sensitization (Category 1), H317

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label Elements, Including precautionary statements Pictogram

Signal Statement Warning Hazard Statement(s) H302 Harmful if s H315 Causes ski H317 May cause H318 Causes set

Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.





Precautionary Statement(s)	P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
	P264	Wash skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face
	F200	protection
	D201.D210.	
	P301+P312+	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you
	P330	feel unwell. Rinse mouth.
	P302 + P352 +	
	P312	CENTER or doctor/ physician if you feel unwell.
	P304 + P340 +	IF INHALED: Remove person to fresh air and keep comfortable for
	P312	breathing. Call a POISON CENTER or doctor/ physician if you feel
		unwell.
	P305 + P351 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	P338 + P310	contact lenses, if present and easy to do. Continue rinsing,
	P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
	P362	Take off contaminated clothing and wash before reuse.
	P370+P378	
		for extinction.
	P403 +P235	Store in a well-ventilated place. Keep cool.
	P501	Dispose of contents/container to an approved waste disposal plant
	P304 + P340 + P312 P305 + P351 + P338 + P310 P333 + P313 P362 P370+P378 P403 +P235	<ul> <li>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.</li> <li>If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>Take off contaminated clothing and wash before reuse.</li> <li>In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.</li> <li>Store in a well-ventilated place. Keep cool.</li> </ul>

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

# Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

None

#### 3.1 Substances

Synonym Formula Molecular Weight CAS-No Hazardous Components	3-(Methylmercapto)propionaldehyde / Citric C <sub>4</sub> H <sub>8</sub> OS / C <sub>12</sub> H <sub>20</sub> O <sub>7</sub> 104.17 g/mol / 276.28 g/mol 3268-49-3 / 77-93-0	c Acid Triethyl Ester
Component	Classification	Concentration
Triethyl citrate		~99%
3-(Methylmercapto)propionaldehyde	Flam. Liq. 4; Acute Tox. 4; Acute Tox. 3; Skin Irrit. 2; Eye Dam. 1; Skin Sens. 1; Aquatic Chronic 3; H227, H302 + H332, H311, H315, H317, H318, H412	~1 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 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 breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
	Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water.



Contact with eyes:       Rinse thoroughly with plenty of water for at least 15 minutes and consult a physicial Ingestion         Ingestion       DO NOT induce vomiting. Never give anything by mouth to an unconscious person Rinse mouth with water.         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
Rinse mouth with water.         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
<ul> <li>4.2 Most important symptoms and effects both acute and delayed</li> <li>4.3 Indication of any immediate medical attention and special treatment needed.</li> <li>Section 5: FIREFIGHTING MEASURES</li> </ul>
both acute and delayed         4.3 Indication of any immediate medical attention and special treatment needed.         Section 5:       FIREFIGHTING MEASURES
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" foam, dry chemical, or carbo dioxide. For large fires, apply water from as far as possible. Use very large quantitie (flooding) of water applied as a mist or spray; solid streams of water may be ineffect Cool all affected containers with flooding quantities of water.
5.2 Special hazards arising from the Carbon oxides, sulfur oxides substance or mixture
<b>Advice for fire fighters</b> Wear self contained breathing apparatus for firefighting if necessary.
<b>Further information</b> Use water spray to cool unopened containers.
Section 6: ACCIDENTAL RELEASE MEASURES
5.1 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 a Beware of vapors accumulating to form explosive concentrations. Vapors can
<ul> <li>5.2 Environmental precautions</li> <li>accumulate in low areas. For personal protection see section 8.</li> <li>Prevent further leakage or spillage. Discharge into the environment must be avoide not allow to enter drains or sewage system.</li> </ul>
6.3 Methods and materials for containment and clean up Contain spillage, and then collect with an electrically protected vacuum cleaner or the wet-brushing and place in container for disposal according to local regulations (see section 13).
6.4 Reference to other sections         For disposal see section 13.
Section 7: HANDLING AND STORAGE
7.1 <b>Precautions for safe handling</b> 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 bup of electrostatic charge.
7.2 Conditions for Safe storage For precautions see section 2.2. Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prever leakage.
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7.3	Specific End use(s)	Flavorings
Sec	tion 8: EXPOSURE CONTROLS/P	ERSONAL PROTECTION
8.1	Control parameters Contains no substances with occupational ex	xposure limit values
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	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. <b>Splash contact</b> Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 56 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is
		advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
	Body protection	Impervious clothing, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
	Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) 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-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
	Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

a Appearance Colorless to pale yellow liquid

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	bcdefghijklmnopqrs	Odor Odor Threshold pH Melting Point /Freezing Point Initial boiling point Flash Point Evaporation Rate Flammability (Solid, Gas) Upper/lower Flammability Limit Vapor pressure Vapor density Relative density @25°C Solubility Partition coefficient: Auto-ignition Temp. Decomposition Temp, Viscosity Explosive properties	Slight Fat Odor No data available No data available 258-259 °C 138°C closed cup No data available No data available No data available No data available No data available No data available Soluble in alcohol and propylene glycol; insoluble in water No data available 433°C No data available No data available No data available
	s t	Explosive properties Oxidizing properties	No data available No data available
9.2	Otł	ner 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, Strong bases
10.6	Hazardous decomposition products	No data available
10.7	Further Information	No data available
Secti	on 11: TOXICOLOGICAL INFORM	ATION

Information on toxicological effects Acute Toxicity				
LC50-Oral -Rat (male & female)	Rat - 4 h - > 2,000 mg/l			
LC50-Inhalation	Rat - males - > 1,721 mg/kg			
LD50 Dermal	Rat - females - 833 mg/kg			
Skin corrosion/irritation	Skin – Rabbit.			
	Result: Irritating to skin			
Serious eye damage/eye irritation	Eyes – Rabbit Result: Risk of serious damage to eyes			
	Acute Toxicity LC50-Oral –Rat (male & female) LC50-Inhalation LD50 Dermal Skin corrosion/irritation			





Respiratory or skin sensitization	Maximization Test (GPMT) - Guinea pig May cause allergic skin reaction.
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	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
Signs and Symptoms of Exposure	Gastrointestinal disturbance, Nausea, Headache, Vomiting
	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	
	Toxicity to fish	static test LC50 - Danio rerio (zebra fish) - 14 mg/l - 24 h
	Toxicity to daphnia and other aquatic	EC50 - Daphnia magna (Water flea) - 4.5 mg/l - 48 h (OECD Test Guideline 202)
	invertebrates	
	Toxicity to algae	NOEC - Desmodesmus subspicatus (green algae) - 1 mg/l - 72 h
12.2	Persistence and degradability	
	Biodegradability	Result: - Readily biodegradable (Directive 67/548/EEC Annex V, C.4.A.)
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	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

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#### Section 13: DISPOSAL CONSIDERATIONS

13.1	<b>Disposal r</b> Product: Packaging	nethods	According to local regulations According to local regulations			
Secti	on 14:	TRANSPORT INFORMATI	ON			
	DOT (US)		Not a dangerous	s goods		
	IMDG IATA		Not a dangerous		A	
Secti	on 15:	REGULATORY INFORMA	TION			
	SARA 302 Components		No chemicals in Section 302	this material are subj	ect to the reporting rec	quirements of SARA Title III,
	SARA 313 Components					th known CAS numbers that ed by SARA Title III, Section
	SARA 311/312 Hazards		No SARA Hazards			
	Massachusetts Right to Know components		No components	are subject to the Ma	ssachusetts Right to K	(now Act
		nia Right to Know components	3-(Methylmerca Triacetin	pto)propionaldehyde CAS# 102-76-1	CAS# 3268-49-3 Rev. Date:	Rev. Date:
	New Jerse	y Right to Know components	3-(Methylmerca Triacetin	pto)propionaldehyde CAS# 102-76-1	CAS# 3268-49-3 Rev. Date:	Rev. Date:
	California F	Prop. 65 components	This product doe		emical known to the St	ate of California to cause

# Section 16: OTHER INFORMATION

# Full text of H-Statements referred to under sections 2 and 3.

HMIS RatingHealth hazard2Chronic Health Hazard\*Flammability2Physical Hazard0

#### **NFPA Rating**

Health hazard:2Fire Hazard:2Reactivity 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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