



HEALTH	2
FLAMMABILITY	1
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers Product Name Product Number CAS-No.

Sulfurol 5% Solution in TEC, Natural 0320405 137-00-8 / 77-93-0

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

Telephone Fax Aurochemicals 7 Nicoll Street Washingtonville, NY 10992 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 substance or mixture: Irritant

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Acute Toxicity, Inhalation (Category 4) H332 Specific target organ toxicity-Single Exposure (Category 3), Respiratory System, H335

2.2 GHS Label Elements, Including precautionary statements

Pictogram	$\langle \mathbf{I} \rangle$	
Signal Statement	Warning	
Hazard Statement(s)	•	Cause skin irritation
	H319	Causes serious eye irritation
	H332	Harmful if inhaled
	H335	May cause respiratory irritation
Precautionary Statement(s)	P261	Avoid breathing dust/fume/gas/mist/vapors/spray
	P264	Wash skin thoroughly after handling
		Use only outdoors or in a well ventilated area
		Wear protective gloves/eye protection/face protection
		IF ON SKIN: Wash with plenty of soap and water
	P302+P352	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable
		for breathing.
		IF IN EYES: Rinse cautiously with water to several minutes. Remove contact
		lenses if present and easy to do. Continue rinsing.



2.3

3.1

Section 3:

Substances

Synonyms

Formula

CAS-No



P312 Call a POISON CENTER or doctor/physician if you feel unwell P332+P313 If skin irritation occurs: Get medical advice/attention P337+P313 If eye irritation persists: Get medical advice/attention P362 Take off contaminated clothing and wash before reuse P403+P233 Store in a well ventilated place. Keep cool P501 Dispose of contents/container to an approved waste disposal plant HNOC (Hazards not otherwise classified or not covered by GHS - STENCH **COMPOSITION / INFORMATION ON INGREDIENTS** 4-Methyl-5-thiazoleethanol as 5% Solution in Triethyl citrate Sulfurol 5% Solution in TEC (Tri ethyl Citrate) C₆H₉NOS 137-00-8 / 77-93-0 205-272-6 / 201-070-7 **Hazardous Components**

Component	Classification	Concentration
2-(4-Methylthiazol-5-yl)ethanol	Skin irritation (Category 2), H315	5%
	Eye irritation (Category 2A), H319	
	Specific target organ toxicity-Single Exposure (Category 3)),
	Respiratory System, H335	
Tri Ethyl Citrate	Not classified as a hazardous substance	95%

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures General advice Consult 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 and contact a physician. Rinse thoroughly with plenty of water for at least 15 as a precaution and consult a Contact with eyes: physician. 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 See section 2.2 and or section 11 both acute and delayed Indication of any immediate medical No data available 4.3 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 carbon dioxides. For larger fires, apply water from as far as possible. Use very large quantities (flooding) of water as a mist or a spray; solid streams of water may be ineffective. Cool all containers with flooding quantities of water.



5.2	Special hazards arising from the substance or mixture	Carbon oxides, Nitrogen oxides (NOx), Sulfide Oxides
5.3	Advice for fire fighters	Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions
5.4	Further information	Flammable in the pre3sence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surfaces
Sect	ion 6: ACCIDENTAL RELEASE M	EASURES
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 area.
6.2	Environment precautions	Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.
6.3	Methods and materials for containment and clean up	Contain spillage. Soak up with absorbent material. Sweep up with broom and shovel. 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**
- 7.2 Conditions for Safe storage

Specific End use(s)

7.3

Avoid contact with skin and eyes. Avoid Inhalation of vapor or mist. Normal measures for preventive fire protection. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters Contains no substances with occupational ex	xposure limit values
8.2	Exposure Controls Appropriate Engineering Controls	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practices. Wash hands immediately after handling the product; before breaks and at the end of the day.
	Personal protective equipment	These recommendations are advisory only and must be evaluated by an industrial engineer 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 safety glasses with side shields. 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, Nitrile rubber gloves, 0.2 mm thick, when handling this product. 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	Impervious clothing 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 (US) or type ABEK (EN 14387) respirator cartridges as a back up 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 governmental 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. Discharge into the environment must be avoided.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<u> </u>	Annoaranaa	
а	Appearance	Liquid, viscous-oily
		Colorless to light amber
b	Odor	Stench, beefy, nutty
С	Odor Threshold	No data available
d	рН	No data available
е	Melting Point /Freezing Point	No data available
f	Boiling Point	No data available
g	Flash Point	>110 ^{oC} closed cup
ĥ	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
i	Upper/lower Flammability Limit	No data available
k	Vapor pressure	No data available
I	Vapor density	2.63 (Air=1.0)
m	Relative density at 25°C	1.138-1.139
n	Solubility	Slightly soluble in water
	5	Miscible with alcohol and ether
0	Partition coefficient: n-octanol/water	No data available
р	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
-	OF FEITH	

9.2 Other Safety Information

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	Strong oxidizing agents
10.6	Hazardous decomposition products	No data available
10.7	Further Information	After inhalation: Irritations of the mucous membranes, coughing and Dyspnea
		After skin and eye contact: Irritant effect

No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects



This product is a mixture and has not been tested for health hazards. The health hazard information presented below is provided in accordance with 29CFR 1910.1200 and is based on the testing of individual component which have been shown to cause the following health effects when tested at higher concentrations or at full strength.

Acute Toxicity LD50-Oral -Rat 5,900 mg/kg Remarks: Behavioral: Altered sleep time (including changes in righting reflex) Respiratory disorder: Nutritional and Gross Metabolic Changes in body temperature decrease LD50-Dermal -Rabbit >5,000 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 Further Toxicological Information May be harmful if inhaled, swallowed, or if absorbed through skin Carcinogenicity IARC IARC No component of this product, present levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.	ţ
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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.	
OCHA. No component of this product, present at levels greater than or equal to 0.1% is	
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	
Specific target organ toxicity-single No data available exposure (GHS)	
Specific target organ toxicity-repeated No data available	
exposures (GHS)	
Aspiration Hazards No data available	
Signs and Symptoms of Exposure	
To the best of our knowledge, the chemical, physical, and toxicological properties have	۵
not been thoroughly investigated	5
Synergistic effect No data available	
RTECS: Not available	
Section 12: ECOLOGICAL INFORMATION	
12.1 Toxicity To Fish:	
Mortality NOEC- Pimephales promelas (fathead minnow) 52,930 mg/l 96 hr	
To Daphnia and other aquatic invertebrates	
Mortality NOEC – Daphnia magna (water flea) 13,020 mg/l 48 hr	
EC-50 Daphnia magna (water flea) >10,000 mg/l 48 hr	
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 No data available	



Section 13: DISPOSAL CONSIDERATIONS

13.1	Disposal n Product: Packaging	nethods	According to local regulations According to local regulations			
Secti	ion 14:	TRANSPORT INFORMATI	ON			
	Reportable Marine Poll Poison Inha IMDG IATA	oping name: Quantity (RQ): lutant: alation Hazard: oping name:	UN-Number: 3334 Class: 9 Aviation regulated liquid, n.o.s. (2 No No Not dangerous goods UN-Number: 3334 Class: 9 Aviation regulated liquid, n.o.s. (2	2-(4-Me	acking Group: III	
Secti	ion 15:	REGULATORY INFORMA	ΓΙΟΝ			
	SARA 302	Components	No chemicals in this material are Section 302	subjec	t to the reporting red	quirements of SARA Title III,
	SARA 313	Components	This material does not contain ar exceed the threshold (De Minimis 313.			
	SARA 311/	312 Hazards	Acute health hazard			
	Massachus component	etts Right to Know s	No components are subject to the	e Mass	achusetts Right to k	(now Act
	Pennsylvar	nia Right to Know components	(2-(4-Methylthiazol-5-yl)ethanol) Triethyl Citrate	5% 95%	CAS# 137-00-8 CAS# 77-93-0	Rev. Date: Rev. Date:
	New Jersey	y Right to Know components	(2-(4-Methylthiazol-5-yl)ethanol) Triethyl Citrate	5% 95%	CAS# 137-00-8 CAS# 77-93-0	Rev. Date: Rev. Date:
	California F	Prop. 65 components	This product does not contain an cancer, birth defects, or any othe			e of California to cause

Section 16: OTHER INFORMATION

HMIS Rating

Health hazard 2 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.

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