

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Sulfurol 10% in Ethanol, Natural
Product Number	0320410
CAS-No.	137-00-8 / 64-17-5

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992
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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 2), H225
 Skin irritation (Category 2), H315
 Eye irritation (Category 2A), H319
 Specific target organ toxicity-Single Exposure (Category 3), Respiratory System, H335

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement **Danger**

Hazard Statement(s)	H225	Highly flammable liquid and vapor
	H315	Cause skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation

Precautionary Statement(s)	P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
	P233	Keep container tightly closed
	P240	Ground/bond container and receiving equipment

P241	Use explosion proof electrical/ventilating/lighting/equipment
P242	Use only non sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash skin thoroughly after handling
P271	Use only outdoors or in a well ventilated area
P280	Wear protective gloves/eye protection/face protection
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water to several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
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
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
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

Synonyms	4-Methyl-5-thiazoleethanol /Ethanol Sulfurol 10% Solution in Ethyl Alcohol
Formula	C ₆ H ₉ NOS
CAS-No	137-00-8 / 64-17-5
EC-No.	205-272-6 / 200-578-6

Hazardous Components

Component	Classification	Concentration
2-(4-Methylthiazol-5-yl) ethanol	Skin irritation (2), H315 Eye irritation (2A), H319 Specific target organ toxicity-Single Exposure (3), Respiratory System, (3) H335	~ 10%
Ethanol	Flammable Liquid (2), H225	~ 90%

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.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 as a precaution and consult a

Ingestion	physician. 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	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
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	Use water spray to cool unopened containers.

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 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	Avoid contact with skin and eyes. Avoid Inhalation of vapor or mist. Normal measures for preventive fire protection.
7.2 Conditions for Safe storage	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.
7.3 Specific End use(s)	Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters Components with workplace control parameters

Component	CAS No.:	Value	Control Parameters	Basis
Ethanol	64-17-5	TWA	1,000 ppm	USA, ACGIH Threshold Limit Values (TLV)
	Remarks:	Upper respiratory tract irritation Confirmed animal carcinogen with unknown relevance to humans		

	TWA	1,000 ppm 1,1900 mg/m3	USA Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contaminate
The value in mg/m3 is approximate			
	TWA	1,000 ppm 1,1900 mg/m3	USA NIOSH Recommended Exposure Limits

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 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 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, Butyl rubber gloves, 0.3 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

- | | | |
|---|-------------------------------|--|
| a | Appearance | Liquid, viscous-oily
Colorless to pale yellow |
| b | Odor | No data available |
| c | Odor Threshold | No data available |
| d | pH | No data available |
| e | Melting Point /Freezing Point | 114oC |

Safety Data Sheet

f	Boiling Point	78°C
g	Flash Point	18°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper explosion limit: 19% (V) Lower explosion limit: 3.3% (V)
k	Vapor pressure	59.5 hPa at 20°C
l	Vapor density	No data available
m	Relative density at 25°C	0.815-0.8225
n	Solubility	Soluble in water, ether, benzene, chloroform Miscible in ethanol at room temperature
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	363.0°C
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	Vapors may form explosive mixture with air
10.4 Conditions to avoid	Heat, flames and sparks, Extremes of temperature and direct sunlight
10.5 Incompatible materials	Strong oxidizing agents Alkali metals, Ammonia, Peroxides
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

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	7,060 mg/kg Remarks: Lungs, Thorax, or Respiration: Other changes
LC50-Inhalation-Rat	20,000 ppm 10 hr
LD50-Dermal	No data available
Skin corrosion/irritation	Rabbit: No skin irritation – 24hr (OECD Test Guideline 404)
Serious eye damage/eye irritation	Rabbit: Mild eye irritation – 24 hr (OECD Test Guideline 405)
Respiratory or skin sensitization	No data available
Germ Cell mutagenicity	No data available

Carcinogenicity

Carcinogenicity: Mouse- Oral
Tumorigenic Equivocal Tumorigenic agent by RTECS criteria:
Liver: Tumors Blood: Lymphomas including Hodgkin's Disease

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.

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

Human: - Female – Oral
Effects on Newborn: Apgar score (human only) Other neonatal measures or effects on Newborn: Drug dependence.

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

**Central nervous system depression, narcosis, Damage to the heart.
Heart irregularities – Based on human evidence
Stomach irregularities – Based on human evidence**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Synergistic effect

No data available

RTECS:

Not available

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Not 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

No data available

Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Product:

According to local regulations

Packaging

According to local regulations

Section 14: TRANSPORT INFORMATION

Safety Data Sheet

DOT (US)	UN-Number: 1170 Class: 3 Packing Group: II
Proper shipping name:	Flammable liquid (Sulfurol solution in Ethyl Alcohol)
Reportable Quantity (RQ):	No
Marine Pollutant:	No
Poison Inhalation Hazard:	No
IMDG	UN-Number 1170 Class: 3 Packing Group II
Proper Shipping Name:	Flammable liquid (Sulfurol solution in Ethyl Alcohol) EMS-No: F-E, S-D
Marine Pollutant:	No
IATA	UN-Number: 1170 Class: 3, Packing Group: II
Proper shipping name:	Flammable liquid (Sulfurol solution in Ethyl Alcohol)

Section 15: REGULATORY INFORMATION

Reach No.	A registration number is not available for this substance as its uses are exempted from registration, the annual tonnage not require a registration or the registration is envisaged for a later registration deadline.		
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, Chronic Health Hazard, Acute health hazard		
Massachusetts Right to Know components	Ethanol	CAS# 64-17-5	Rev. Date: 3/1/2007
Pennsylvania Right to Know components	(2-(4-Methylthiazol-5-yl) ethanol)	CAS# 137-00-8	Rev. Date:
	Ethanol	CAS # 64-17-5	Rev. Date: 3/1/2007
New Jersey Right to Know components	(2-(4-Methylthiazol-5-yl) ethanol)	CAS# 137-00-8	Rev. Date:
	Ethanol	CAS # 64-17-5	Rev. Date: 3/1/2007
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	2
Chronic Health Hazard*	
Flammability	3
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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