

Safety Data Sheet

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Sulfurol 5% Solution in PG, Natural
Product Number	0320405
CAS-No.	137-00-8 / 57-55-6

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992
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)

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

Warning

Hazard Statement(s)

H315 Cause skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
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
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+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

Precautionary Statement(s)

Safety Data Sheet

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

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
 Sulfurol 5% Solution in Propylene Glycol
 Formula C_6H_9NOS
 CAS-No 137-00-8 / 57-55-6
 205-272-6 / 200-338-0

Hazardous Components

Component	Classification	Concentration
2-(4-Methylthiazol-5-yl)ethanol	Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity-Single Exposure (Category 3), Respiratory System, H335	5%
1,2-Propane-diol	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.
 Contact with eyes: Rinse thoroughly with plenty of water for at least 15 as a precaution and consult a 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 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.

Safety Data Sheet

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#	Value	Control Parameters	Basis
Propane-1,2-diol	57-55-6	TWA	10 mg/m ³	USA, Workplace Environmental Exposure Levels (WEEL)

- 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 situation of anticipated use by our customers. They should not be construed as offering an approval for 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, rubber gloves, 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.

Safety Data Sheet

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	Stench
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	-60°C
f	Boiling Point	187°C
g	Flash Point	>107°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	2.63 (Air=1.0)
m	Relative density at 25°C	1.040-1.065
n	Solubility	Miscible with water, acetone, chloroform Soluble in ether Dissolves in many essential oils miscible with fixed oils and with Ethanol at room temperature
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
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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	No data available

Section 11: TOXICOLOGICAL INFORMATION

Safety Data Sheet

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	20,000 mg/kg
LC50-Inhalation	No data available
LD50-Dermal -Rabbit	20,800 mg/kg
LD50- Intramuscular –Rat	14 g/kg
LD50 Intravenous – Dog	28 g/kg
LD50 Intravenous – Rat	6,423 mg/kg
LD50 Intravenous – Mouse	6,630 mg/kg
LD50 Intravenous - Rabbit	6,500 mg/kg
LD50- Intraperitoneal –Rat	6,660 mg/kg

LD50-Intraperitoneal-Mouse	9,718 mg/kg
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Remarks: Lungs, Thorax or Respiration: Chronic pulmonary edema, Kidney, Ureter, Bladder: Changes in both tubules and glomeruli. Blood: Changes in spleen

LD50 Subcutaneous-Mouse	17,370 mg/kg
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Remarks: Behavioral: Changes in motor activity (specific assay) Behavioral: Muscle contraction or spasticity. Cyanosis

Skin corrosion/irritation	Human: Mild skin irritation – 7 d
Serious eye damage/eye irritation	Rabbit: Mild eye irritation
Respiratory or skin sensitization	No data available
Germ Cell mutagenicity	No data available

Carcinogenicity

IARC	No component of this mixture, 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 mixture, 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 mixture, 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 mixture, 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 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 disturbances: Nausea, Headache, Vomiting, Central Nervous System depression.

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

Safety Data Sheet

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 methods	
Product:	According to local regulations
Packaging	According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)	UN-Number: 3334 Class: 9 Packing Group: III
Proper shipping name:	A Aviation regulated liquid, n.o.s. (2-(4-Methylthiazol-5-yl)ethanol)
Reportable Quantity (RQ):	No
Marine Pollutant:	No
Poison Inhalation Hazard:	No
IMDG	Not dangerous goods
IATA	UN-Number: 3334 Class: 9 Packing Group: III
Proper shipping name:	A Aviation regulated liquid, n.o.s. (2-(4-Methylthiazol-5-yl)ethanol)

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	Acute health hazard		
Massachusetts Right to Know components	No components are subject to the Massachusetts Right to Know Act		
Pennsylvania Right to Know components	(2-(4-Methylthiazol-5-yl)ethanol) 5%	CAS# 137-00-8	Rev. Date:
	Propane-1,2-diol 95%	CAS# 57-55-6	Rev. Date 8/11/1989
New Jersey Right to Know components	2-(4-Methylthiazol-5-yl)ethanol) 5%	CAS# 137-00-8	Rev. Date:
	Propane-1,2-diol 95%	CAS# 57-55-6	Rev. Date 8/11/1989
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.		

Safety Data Sheet

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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