

HEALTH 2 FLAMMABILITY 1 REACTIVITY 0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name Sulfurol, 5% Solution in ETOH Natural

Product Number 0320405

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

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

Printed: August 21, 2022

CHEMICALS The Natural Choice for Flavor and Fragrance Ingredients

Safety Data Sheet

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 /ETOH Solution

Sulfurol 5% Solution in ETOH (Ethyl Alcohol)

Formula C_6H_9NOS

CAS-No 137-00-8 / 64-17-5 EC-No. 205-272-6 / 200-578-6

Hazardous Components

Component	Classification	Concentratio	n
2-(4-Methylthiazol-5-yl)ethanol	Skin irritation (2), H315	5%	
, ,	Eye irritation (2A), H319		
	Specific target organ toxi	city-Single Exposure (3),	
	Respiratory System,(3) F	1335	
Ethanol			
	Flammable Liquid (2), H2	225 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

FIREFIGHTING MEASURES Section 5:

5.1 **Extinguishing Media**

> Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special hazards arising from the 5.2

Carbon oxides, Nitrogen oxides (NOx), Sulfide Oxides substance or mixture

Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes Advice for fire fighters 5.3

under fire conditions

Use water spray to cool unopened containers. 5.4 **Further information**

Section 6: ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure 6.1 Personal precautions, protective equipment and emergency procedures 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.

Methods and materials for containment 6.3

and clean up Specific end use(s)

6.4

Contain spillage. Soak up with absorbent material. Sweep up with broom and shovel.

Place in a suitable, closed container for disposal.

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

EXPOSURE CONTROLS/PERSONAL PROTECTION Section 8:

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 respir	ratory tract irritation		
		Confirmed a	Confirmed animal carcinogen with unknown relevance to humans		
		TWA	1,000 ppm	USA Occupational Exposure Limits	
			1,1900 mg/m3	(OSHA) Table Z-1 Limits for Air	
			-	Contaminate	
		The value in	The value in mg/m3 is approximate		
		TWA	1,000 ppm	USA NIOSH Recommended Exposure	
			1,1900 mg/m3	Limits	

Printed: August 21, 2022

8.2 **Exposure Controls**

aurochemicals.com

Safety Data Sheet



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 us 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

Colorless to pale yellow

b Odor Meaty, nutty
c Odor Threshold No data available
d pH No data available

e Melting Point /Freezing Point 114oC f Boiling Point 78oC

g Flash Point ~20°C closed cup h Evaporation Rate No data available i Flammability (Solid, Gas) No data available

Upper/lower Flammability Limit Upper explosion limit: 19% (V)
Lower explosion limit: 3.3% (V)

Vapor pressure 59.5 hPa at 20°C Vapor density No data available

m Relative density at 25°C 0.789

k

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,
 r Viscosity
 s Explosive properties
 t Oxidizing properties
 No data available
 No data available
 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
 10.3 Possibility of Hazardous reactions
 10.4 Stable under recommended storage conditions
 10.5 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 products10.7 Further InformationNo data availableNo 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

12.1ToxicityNot available12.2Persistence and degradabilityNo data available12.3Bioaccumulative potentialNo data available12.4Mobility in soilNo 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: 1170 Class: 3 Packing Group: II

Proper shipping name: Flammable liquid (Ethyl Alcohol Solution)

Reportable Quantity (RQ):

Marine Pollutant:

No
Poison Inhalation Hazard:

No

IMDG UN-Number 1170 Class 3, Packing Group II

Proper Shipping Name: Flammable liquid (Ethyl Alcohol Solution) EMS-No: F-E, S-D

Marine Pollutant: No

IATA UN-Number: 1170 Class: 3, Packing Group: II

Proper shipping name: Flammable liquid (Ethyl Alcohol Solution)

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 nod not require a registration or the registration is

aurochemicals.com

Safety Data Sheet



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 Ethanol CAS#- 64-17-5 Rev. Date: 3/1/2007

components

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.

Issued by:	Contact Person:
Aurochemicals	Deo N. Persaud
7 Nicoll Street	8/21/2022
Washingtonville, NY 10992 USA	