

HEALTH 2 **FLAMMABILITY** 1 REACTIVITY 0

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product identifiers** 1.1

> Product Name Sulfurol 10% Solution in TEC, Natural

**Product Number** 0320400

137-00-8 / 77-93-0 CAS-No.

1.2 Product Recommended Use **Flavorings** 

1.3 Preparation Information

Aurochemicals Company

7 Nicoll Street

Washingtonville, NY 10992

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

**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

**GHS Label Elements, Including precautionary statements** 2.2

Pictogram

Signal Statement

Hazard Statement(s)

Warning

H315 Cause skin irritation

H319 Causes serious eve irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation

P261 Avoid breathing dust/fume/gas/mist/vapors/spray Precautionary Statement(s)

P264 Wash skin thoroughly after handling

P271 Use only outdoors or in a well ventilated area

Printed: August 21, 2022

P280 Wear protective gloves/eye protection/face protection

P302+P352 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

P304+P340 for breathing.

IF IN EYES: Rinse cautiously with water to several minutes. Remove contact 305+P351+P338

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

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

#### Section 3: **COMPOSITION / INFORMATION ON INGREDIENTS**

3.1 **Substances** 

> 4-Methyl-5-thiazoleethanol as 10% Solution in Triethyl citrate Synonyms

> > Sulfurol 10% Solution in TEC (Tri Ethyl Citrate)

C<sub>6</sub>H<sub>9</sub>NOS Formula

137-00-8 / 77-93-0 CAS-No 205-272-6 / 201-070-7

**Hazardous Components** 

Component Classification Concentration

2-(4-Methylthiazol-5-yl)ethanol Skin irritation (Category 2), H315 10%

Eye irritation (Category 2A), H319

Specific target organ toxicity-Single Exposure (Category 3),

Respiratory System, H335

Not classified as a hazardous substance 90% Tri Ethyl Citrate

#### Section 4: FIRST AID MEASURES

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

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.

Remove contaminated clothing and wash before reuse. Clothing contamination:

4.2 Most important symptoms and effects

both acute and delayed

See section 2.2 and or section 11

Indication of any immediate medical

attention and special treatment needed

No data available

### Section 5: FIREFIGHTING MEASURES

### **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.

Printed: August 21, 2022



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

### Section 6: ACCIDENTIAL 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

Contains no substances with occupational exposure 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.

Printed: August 21, 2022



Where risk assessment shows air purifying respirators are appropriate use a full face Respiratory protection

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

Liquid, Viscous-oily Appearance

Colorless to light amber

Stench, beefy, nutty b Odor No data available С Odor Threshold

No data available

d Melting Point /Freezing Point No data available е

**Boiling Point** No data available Flash Point >110°C closed cup g

**Evaporation Rate** No data available

Flammability (Solid, Gas) No data available Upper/lower Flammability Limit No data available

Vapor pressure No data available

Vapor density 2.63 (Air=1.0)

Relative density at 25°C 1.131-1.153 m

Solubility Slightly soluble in water

Miscible with alcohol and ether

Partition coefficient: n-octanol/water No data available 0

Auto-ignition Temp. No data available р Decomposition Temp. No data available

q Viscosity No data available

Explosive properties No data available

Oxidizing properties No data available

Other Safety Information No data available

### STABILITY AND REACTIVITY Section 10:

No data available 10.1 Reactivity

**Chemical Stability** Stable under recommended storage conditions 10.2

Possibility of Hazardous reactions No data available 10.3 Conditions to avoid No data available 10.4

10.5 Incompatible materials Strong oxidizing agents Hazardous decomposition products No data available 10.6

**Further Information** After inhalation: Irritations of the mucous membranes, coughing and Dyspnea 10.7

After skin and eye contact: Irritant effect

Printed: August 21, 2022

#### 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 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.

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

Specific target organ toxicity-single

exposure (GHS)

Specific target organ toxicity-repeated

exposures (GHS)

Aspiration Hazards

Signs and Symptoms of Exposure

No data available

No data available

No data available

No data available

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 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

Printed: August 21, 2022

12.2 Persistence and degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No data available
 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):

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 No components are subject to the Massachusetts Right to Know Act

components

Pennsylvania Right to Know components (2-(4-Methylthiazol-5-yl)ethanol) 10% CAS# 137-00-8 Rev. Date:

Triethyl Citrate 90% CAS# 77-93-0 Rev. Date:

New Jersey Right to Know components (2-(4-Methylthiazol-5-yl)ethanol) 10% CAS# 137-00-8 Rev. Date:

Triethyl Citrate 90% CAS# 77-93-0 Rev. Date:

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.

Printed: August 21, 2022

Section 16: OTHER INFORMATION

**HMIS Rating** 

Health hazard 2 Chronic Health Hazard Flammability 1 Physical Hazard 0 aurochemicals.com

# **Safety Data Sheet**



### **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	

Printed: August 21, 2022