

|              |   |
|--------------|---|
| HEALTH       | 2 |
| FLAMMABILITY | 1 |
| REACTIVITY   | 0 |

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name **Sulfurol 10% in Propylene Glycol, Natural**  
 Product Number **0320410**  
 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)  
 Eye irritation (Category 2A)  
 Specific target organ toxicity-Single Exposure (Category 3), Respiratory System

### 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

Precautionary Statement(s)

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  
 P362 Take off contaminated clothing and wash before reuse  
 P403+P235 Store in a well ventilated place. Keep container tightly closed.  
 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/Propylene Glycol

Formula C<sub>6</sub>H<sub>9</sub>NOS  
 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<br>Eye irritation (Category 2A), H319<br>Specific target organ toxicity-Single Exposure (Category 3),<br>Respiratory System, H335 | ~10%          |
| 1,2-Propane-diol                | Not classified as a hazardous substance  | ~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 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.

## 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/m3           | 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.  |
| 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<br>Colorless 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                            | 103°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               | 1.035-1.037  |
| n | Solubility                             | Miscible wit water, acetone, chloroform<br>Soluble in ether<br>Dissolves in many essential oils<br>Immiscible 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

## 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

### 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

**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

**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                          |      | <b>Gastrointestinal disturbances: Nausea, Headache, Vomiting, Central Nervous System depression.</b>   |
| Synergistic effect                                      |      | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated                     |
| RTECS:  |      | No data available  |
|   |      | Not available  |

## Section 12: ECOLOGICAL INFORMATION

|  |   |
|--|---|
| <b>12.1 Toxicity</b>                           | <b>To Fish:</b><br>Mortality NOEC- Pimephales promelas (fathead minnow) 52,930 mg/l 96 hr   |
|  | <b>To Daphnia and other aquatic invertebrates</b><br>Mortality NOEC – Daphnia magna (water flea) 13,020 mg/l 48 hr<br>EC-50 Daphnia magna (water flea) >10,000 mg/l 48 hr |
| <b>12.2 Persistence and degradability</b>      | No data available   |
| <b>12.3 Bioaccumulative potential</b>          | No data available   |
| <b>12.4 Mobility in soil</b>                   | No data available   |
| <b>12.5 Results of PBT and vPvB assessment</b> | PBT/vPvB assessment not available as chemical safety assessment not required / not conducted  |
| <b>12.6 Other adverse effects</b>              | No data available   |

## Section 13: DISPOSAL CONSIDERATIONS

|                              |                                |
|------------------------------|--------------------------------|
| <b>13.1 Disposal methods</b> |                                |
| Product:                     | According to local regulations |
| Packaging                    | According to local regulations |

## Section 14: TRANSPORT INFORMATION

|                           |   |
|---------------------------|---|
| <b>DOT (US)</b>           | UN-Number: 3334 Class: 9 Packing Group: III                             |
| Proper shipping name:     | (2-(4-Methylthiazol-5-yl) ethanol) solution in Propylene glycol, n.o.s. |
| Reportable Quantity (RQ): | No  |
| Marine Pollutant:         | No  |
| Poison Inhalation Hazard: | No  |
| <b>IMDG</b>               | Not dangerous goods   |
| <b>IATA</b>               | UN-Number: 3334 Class: 9 Packing Group: III                             |
| Proper shipping name:     | (2-(4-Methylthiazol-5-yl) ethanol) solution in Propylene glycol, n.o.s. |

## 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)  | CAS# 137-00-8 | Rev. Date:          |
|  | Propane-1,2-diol  | CAS# 57-55-6  | Rev. Date 8/11/1989 |
| New Jersey Right to Know components    | 2-(4-Methylthiazol-5-yl) ethanol)   | CAS# 137-00-8 | Rev. Date:          |
|  | Propane-1,2-diol  | 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.  |               |                     |

## 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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