

|              |   |
|--------------|---|
| HEALTH       | 4 |
| FLAMMABILITY | 2 |
| REACTIVITY   | 0 |

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

|                |  |
|----------------|--|
| Product Name   | <b>2-Isobutyl Thiazole 1% in EtOH, Natural</b> |
| Product Number | <b>0313401</b>                                 |
| CAS-No.        | <b>18640-74-9/64-17-5</b>                      |

1.2 Product Recommended Use **Flavorings**

### 1.3 Preparation Information

|         |  |
|---------|--|
| Company | Aurochemicals<br>7 Nicoll Street<br>Washingtonville, NY 10992- USA |
|---------|--|

|           |              |
|-----------|--------------|
| 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) | Highly flammable liquid and vapor (Category 2), H225<br>Skin Irritation (Category 2), H315<br>Eye irritation (Category 2A) H319<br>Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 |
|--|--|

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement  
Hazard Statement(s)

**Danger**

Precautionary Statement(s)

|      |   |
|------|---|
| H225 | Highly Flammable liquid and vapor                                     |
| H315 | May cause an allergic skin reaction                                   |
| H319 | Causes serious eye irritation   |
| H335 | May cause respiratory irritation.                                     |
| P210 | Keep away from heat/sparks/open flames/hot surfaces – No smoking      |
| P261 | Use explosion proof electrical/ventilating/lighting equipment         |
| P264 | Wash skin thoroughly after handling                                   |
| P270 | Do not eat, drink or smoke when using this product.                   |
| P272 | Contaminated work clothing should not be allowed out of the workplace |

|                |  |
|----------------|--|
| P280           | Wear protective gloves/protective clothing/eye protection/face protection  |
| P301+P312      | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.   |
| P302 +P352     | IF ON SKIN: Wash with plenty of soap and water   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing |
| P330           | Rinse Mouth  |
| 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+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) None

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances

Synonyms 2-(2-methylpropyl)-1,3-thiazole

Formula C<sub>7</sub>H<sub>11</sub>NS  
Molecular Weight 141.23 g/mol  
CAS-No 18640-74-9  
EC-No. 242-470-1

#### Hazardous Components

| Component           | Classification   | Concentration |
|---------------------|--|---------------|
| Ethanol             | Highly Flammable liquids (2), H225                                       | <= 100%       |
| 2-Isobutyl thiazole | STOT SE 3, H335<br>Skin Irritation (2), H315<br>Eye irritation (2A) H319 | 1%            |

### Section 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

|                         |   |
|-------------------------|---|
| General Advice          | Consult a 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. Consult a physician.      |
| Contact with eyes:      | Rinse thoroughly with plenty of water for at least 15 minutes as a precaution. 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 (NO<sub>x</sub>), Sulphur 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 areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- 6.2 **Environment precautions** Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system. Discharge into the environment must be avoided.
- 6.3 **Methods and materials for containment and clean up** Pick up and arrange disposal without creating dust. 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. Keep away from sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic charge.
- 7.2 **Conditions for Safe storage** Keep container tightly closed in a dry and well-ventilated place. Containers which have been 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

| Ethanol | CAS# 64-17-5     | Values                           |
|---------|------------------|----------------------------------|
| PEL     | Long term value  | 1900 mg/m <sup>3</sup> , 1000ppm |
| REL     | Long term value  | 1900 mg/m <sup>3</sup> , 1000ppm |
| TLV     | Short term value | 1880 mg/m <sup>3</sup> , 1000ppm |

### 8.2 Exposure Controls

Appropriate Engineering Controls

Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the work 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 face shield and safety glasses. 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, 0.4 mm thick. 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                   | Complete suit 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 (U) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full faced supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (U) 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                    | Colorless liquid  |
| b Odor                          | Sulfurous         |
| c Odor Threshold                | No data available |
| d pH                            | No data available |
| e Melting Point /Freezing Point | No data available |
| f Boiling Point                 | 78°C              |
| g Flash Point                   | 18°C closed cup   |

|   |  |   |
|---|--|---|
| h | Evaporation Rate                       | No data available                           |
| i | Flammability (Liquid)                  | Flammable                                   |
| j | Upper/lower Flammability Limit         | No data available                           |
| k | Vapor pressure                         | No data available                           |
| l | Vapor density                          | No data available                           |
| m | Relative density @25°C                 | 0.800-0.840                                 |
| n | Solubility                             | Miscible in water and most organic solvents |
| 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

|  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | No data available                           |
| <b>10.2 Chemical Stability</b>                 | Stable under recommended storage conditions |
| <b>10.3 Possibility of Hazardous reactions</b> | No data available                           |
| <b>10.4 Conditions to avoid</b>                | Heat, Flames and Sparks                     |
| <b>10.5 Incompatible materials</b>             | No data available                           |
| <b>10.6 Hazardous decomposition products</b>   | No data available                           |
| <b>10.7 Further Information</b>                | No data available                           |

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

|                                   |                   |
|-----------------------------------|-------------------|
| LD50-Oral                         | No data available |
| LC50-Inhalation                   | No data available |
| LD50-Dermal                       | No data available |
| 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 |

#### Carcinogenicity

IARC Ethanol; 64-17-5

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.

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 No data available

|   |                                  |
|---|----------------------------------|
| Teratogenicity  | No data available                |
| Specific target organ toxicity-single exposure (GHS)    | May cause respiratory irritation |
| Specific target organ toxicity-repeated exposures (GHS) | No data available                |
| Aspiration Hazards                                      | No data available                |

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

Synergistic effects  
RTECS: No data available  
Not available

## Section 12: ECOLOGICAL INFORMATION

|   |  |
|---|--|
| 12.1 Toxicity                           | No data 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

|                           |  |
|---------------------------|--|
| <b>DOT (US)</b>           | <b>UN-Number: 1170 Class: 3; Packaging Group: II</b>               |
| Proper shipping name:     | Flammable liquid; Ethanol Solution                                 |
| Reportable Quantity (RQ)  | No   |
| Marine Pollutant:         | No   |
| Poison Inhalation Hazard: | No   |
| <b>IMDG</b>               | <b>UN-Number: 1170 Class: 3 Packing Group: II EMS-No: F-E, S-D</b> |
| Proper shipping name:     | FLAMMABLE LIQUID, ETHANOL SOLUTION                                 |
| Marine Pollutant:         | No   |
| <b>IATA</b>               | <b>UN-Number: 1170 Class: 3 Packing Group: II</b>                  |
|                           | Flammable Liquid, 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

# Safety Data Sheet

numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

Massachusetts Right to Know components

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

Pennsylvania Right to Know components

Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007  
2-Isobutylthiazole 18640-74-9

New Jersey Right to Know components

Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007  
2-Isobutylthiazole 18640-74-9

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 2  
Reactive 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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| Washingtonville, NY 10992 USA |                        |