

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	<b>2-Isobutylthiazole 5% in Propylene Glycol, Natural</b>
Product Number	<b>0313405</b>
CAS-No.	18640-74-9/57-55-6

### 1.2 Product Recommended Use

**Flavorings**

### 1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA
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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 the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Eye damage/ irritation (Category 2B)  
Acute toxicity, Oral (Category 5)  
Skin irritation  
Specific target organ toxicity - single exposure, Respiratory system

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement  
Hazard Statement(s)

Warning	
H302	Harmful if swallowed
H315	Causes skin irritation.
H319	Causes eye irritation
H335	May cause respiratory irritation.

Precautionary Statement(s)

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+312	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician if you feel unwell
P302+361+353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
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

Synonym	2-(2-methylpropyl)-1,3-thiazole /1,2-Propanediol
Formula	C <sub>7</sub> H <sub>11</sub> NS
Molecular Weight	141.23 g/mol
CAS-No	18640-74-9/57-55-6

#### Hazardous Components

Component	Classification	Concentration
2-Isobutyl thiazole	May cause an allergic skin reaction H315	~ 5%
1,2-Propanediol	Oral Tox; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H302, H315, H319, H335	~ 95 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 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	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

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 For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
- 5.2 Special hazards arising from the substance or mixture** Carbon oxides
- 5.3 Advice for fire fighters** Wear self contained breathing apparatus for firefighting if necessary.
- 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.
- 6.2 Environmental 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** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal
- 6.4 Reference to other sections**  
For disposal see section 13.

## Section 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
- 7.2 Conditions for Safe storage** 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**

Component	CAS-No	Value	Control Parameters	Basis
Propane-1,2-diol	57-55-6	TWA	10 mg/m <sup>3</sup>	USA. Workplace Environmental Exposure Levels (WEEL)

## 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 workday.

### 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	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	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. <b>Splash contact</b> Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 56 min Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
Body protection	Impervious clothing, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) 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-face supplied air respirator. Use respirators and components tested and approved under appropriate government 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.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- |              |   |
|--------------|---|
| a Appearance | Form: liquid<br>Color: colorless to pale yellow |
| b Odor       | Sulfurous                                       |

c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	Melting point/range: -60°C
f	Initial boiling point and boiling range	188 °C
g	Flash Point	99°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	No data available
m	Relative density @25°C	1.030-1.040
n	Solubility	Miscible with water, acetone, chloroform Soluble in ether Dissolves in many essential oils, but is immiscible in fixed oils
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	371 °C
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	<b>Other Safety Information</b>	No data available

## Section 10: STABILITY AND REACTIVITY

10.1	<b>Reactivity</b>	No data available
10.2	<b>Chemical Stability</b>	Stable under recommended storage conditions
10.3	<b>Possibility of Hazardous reactions</b>	No data available
10.4	<b>Conditions to avoid</b>	No data available

10.5 Incompatible materials	Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing Agents
10.6 Hazardous decomposition products	Carbon oxides
10.7 Further Information	No data available

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### 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 Intraperitoneal-Rat	6,660 mg/kg
LD50 Intravenous-Rat	6,423 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: Change in motor activity (specific assay)  
Behavioral: Muscle contraction or spasticity. Cyanosis

LD50 Intravenous-Mouse	6,630 mg/kg
LD50 Intravenous-Rabbit	6,500 mg/kg
Skin corrosion/irritation	Human: Mild skin irritation 7 days
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 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.

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)	No data available
Specific target organ toxicity-repeated exposures (GHS)	No data available

Aspiration Hazards	No data available
Signs and Symptoms of Exposure	Gastrointestinal disturbance, 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 effects	No data available
RTECS:	TY2000000

## Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	<u>To Fish:</u> Mortality NOEC- Pimephales promelas (fathead minnow) 52,930 mg/l 96 h
	<u>To Daphnia and other aquatic invertebrates</u> Mortality NOEC – Daphnia 13.020 mg/l 48 h
	EC-50 Daphnia magna (water flea) >10,000 mg/l 48 h
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)	Not a dangerous goods
IMDG	Not a dangerous goods
IATA	Not a dangerous goods

## 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.



# Safety Data Sheet

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right to Know  
components

2-Isobutylthiazole 18640-74-9

Pennsylvania Right to Know components

Propane-1,2-diol CAS# 57-55-6 Rev. Date: 8/11/1989  
2-Isobutylthiazole 18640-74-9

New Jersey Right to Know components

Propane-1,2-diol CAS# 57-55-6 Rev. Date: 8/11/1989  
2-Isobutylthiazole 18640-74-9

California Prop. 65 components

This product does not contain any chemical known to the 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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