

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Thialdine 1% in EtOH, Natural
Product Number	0401801
CAS-No.	638-17-5/64-17-5

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

Classification of the substance or mixture

2.1

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

Flammable liquids (Category 2)

Serious Eye Irritation (Category 2A)

Acute toxicity, Oral (Category 5)

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

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement	Danger	
Hazard Statement(s)	H225	Highly flammable liquid and vapor
	H303	May be harmful if swallowed
	H319	Causes serious eye 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
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection
P303+P330 +P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P305 + P351+ P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/ attention.
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

Synonym	Dihydro-2,4,6-trimethyl-1,3,5(4H)dithiazine
Formula	C ₆ H ₁₃ NS ₂
Molecular Weight	163.30 g/mol
CAS-No.	638-17-5/64-17-5
EC-No.	211-323-3

Hazardous Components

Component	Classification	Concentration
Ethanol	Highly flammable liquid and vapor; Acute toxicity; H303	~99%
Dihydro-2,4,6-trimethyl-1,3,5(4H)dithiazine	Respiratory irritation; H335	~ 1 %

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, nitrogen and sulfur 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. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.
- 6.2 Environmental precautions** Prevent further leakage or spillage. Discharge into the environment must be avoided. Do not allow to enter drains or sewage system.
- 6.3 Methods and materials for containment and clean up** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
- 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 vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.
For precautions see section 2.2.
- 7.2 Conditions for Safe storage** Store in cool place. 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 substances with occupational exposure limit values

Component	CAS-No.	Value	Control Parameters	Basis
Ethanol	64-17-5	TWA	1,000 ppm	USA, ACGIH Threshold Limit Value (TLV)
Remarks: Upper Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans				
		TWA	1,000 ppm 1,900 mg/m ³	USA-Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
The value in mg/m ³ is approximate				
		TWA	1,000 ppm 1,900 mg/m ³	USA-NIOSH Recommended Exposure Limits

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. Splash contact 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.

Safety Data Sheet



The Natural Choice for Flavor
and Fragrance Ingredients

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a	Appearance	Form: Mobile liquid Color: Yellow
b	Odor	Roasted meat, sulfurous
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	No data available
f	Initial boiling point and boiling range	78 °C
g	Flash Point	18°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper explosion limit: 19.0% (V) Lower explosion limit: 3.3% (V)
k	Vapor pressure	59.5 hPa at 20°C
l	Vapor density	No data available
m	Relative density @25°C	0.80-0.81
n	Solubility	Soluble in water
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	363°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 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	Vapors may form explosive mixture with air
10.4 Conditions to avoid	Heat, Flames, Sparks. Extremes of temperature and direct sunlight
10.5 Incompatible materials	Strong oxidizing agents, Peroxides
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

Acute Toxicity

LD50 Oral-Mouse

7,060 mg/kg

Remarks: Lungs, Thorax, or Respiration: Other changes

LC50-Inhalation

20,000 ppm 10 h

Skin corrosion/irritation

Rabbit: No skin irritation 24 hr
(OECD Test Guideline 405)

Serious eye damage/eye irritation

Rabbit: Mild eye irritation - 24 h
(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.

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

Reproductive toxicity – Humans – female - Oral

Effects on Newborn: Apgar score (Humans only). Effects on Newborn: Other neonatal measures or effects; Drug dependence

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	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 effects	No data available
RTECS:	No data 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

DOT (US)	UN-Number: 1170	Class: 3	Packing Group: II
Proper Shipping name	Ethanol solution		
Reportable Quantity (RQ)	No		
Marine Pollutant	No		
IMDG	UN-Number: 1170	Class: 3	Packing Group: II EMS-No: F-E, S-D
Proper Shipping name	Ethanol solution		
Marine Pollutant	No		
IATA	UN-Number: 1170	Class: 3	Packing Group: II
Proper shipping name:	Ethanol solution		

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

Safety Data Sheet

313.

SARA 311/312 Hazards

Fire Hazard, Chronic 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

New Jersey Right to Know components

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

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 2
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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