

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/18/2015 Revision date: 07/12/2016 Version: 3.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: Thiazole	
CAS-No.	: 288-47-1	
Product code	: (US) T300	
Formula	: C3H3NS	
1.2.         Recommended use and restrictions on use           No additional information available		
1.3. Supplier		
Synerzine 5340 Hwy 42 S Ellenwood, Georgia 30294 - USA T 404-524-6744 - F 404-577-1651 info@synerzine.com - www.synerzine.com		

#### 1.4. Emergency telephone number

Emergency number

: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US

### SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture 2.1.

<b>GHS-US classification</b>		
Flammable liquids Category	H225	Highly flammable liquid and vapour
2 Acute toxicity (oral)	H302	Harmful if swallowed
Category 4		
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye	H318	Causes serious eye damage
irritation Category 1		
Specific target organ toxicity	H335	May cause respiratory irritation
(single exposure) Category 3		

Full text of H statements : see section 16

Precautionary statements (GHS-US)

GHS-US labeling	
Hazard pictograms (GHS-US)	
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H225 - Highly flammable liquid and vapour

GHS Label elements, including precautionary statements

- - H302 Harmful if swallowed
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H335 May cause respiratory irritation
- : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, hot surfaces, open flames, sparks
- P233 Keep container tightly closed.
- P240 Ground/Bond container and receiving equipment
- P241 Use explosion-proof electrical, lighting, ventilating equipment
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing vapors, spray, mist, fume.
- P264 Wash hands, forearms and face thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.

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	P280 - Wear eye protection, face protection, protective clothing, protective gloves.	
	P301+P312 - If swallowed: Call a doctor, a POISON CENTER if you feel unwell	
	P302+P352 - If on skin: Wash with plenty of soap and water	
	P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin	
	with water/shower	
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing	
	P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact	
	lenses, if present and easy to do. Continue rinsing	
	P310 - Immediately call a doctor, a POISON CENTER	
	P312 - Call a doctor, a POISON CENTER if you feel unwell	
	P321 - Specific treatment (see supplemental first aid instruction on this label)	
	P330 - Rinse mouth.	
	P332+P313 - If skin irritation occurs: Get medical advice/attention.	
	P362+P364 - Take off contaminated clothing and wash it before reuse.	
	P370+P378 - In case of fire: Use alcohol resistant foam, dry sand to extinguish.	
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.	
	P403+P235 - Store in a well-ventilated place. Keep cool.	
	P405 - Store locked up.	
	P501 - Dispose of contents/container to an approved waste disposal plant	
hich do not	t result in classification	

2.3. Other hazards which do

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Substance type	: Mono-constituent			
Name		Product identifier	%	GHS-US classification
Thiazole (Main constituent)		(CAS-No.) 288-47-1	99 - 100	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures		
4.1. Description of first aid mea	asures	
First-aid measures general	: Call a poison center/doctor/physician if you feel unwell.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.	
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.	
First-aid measures after ingestion	: Rinse mouth. Call a poison center/doctor/physician if you feel unwell.	
4.2. Most important symptoms	and effects (acute and delayed)	
Symptoms/effects after inhalation	: May cause respiratory irritation.	
Symptoms/effects after skin contact	: Irritation.	
Symptoms/effects after eye contact	: Serious damage to eyes.	
4.3. Immediate medical attenti	on and special treatment, if necessary	
Treat symptomatically.		
SECTION 5: Fire-fighting meas	ures	

5.1.	Suitable (and unsuitable) exting	uishing media	
Suitable e	xtinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2.	Specific hazards arising from the	e chemical	
Fire hazar	d	: Highly flammable liquid and vapour.	
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Reactivity	: Highly flammable liquid and vapour.
5.3. Special protective equipme	nt and precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release	measures
6.1. Personal precautions, prote	ctive equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for c	ontainment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and stora	nge
7.1. Precautions for safe handlin	ng
Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well- ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage,	including any incompatibilities
Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

### 8.1. Control parameters

No additional information available

8.2. Appropriate engineering	controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.	
Environmental exposure controls	: Avoid release to the environment.	
8.3. Individual protection mea	sures/Personal protective equipment	
Hand protection:		
Protective gloves		
Eye protection:		
Safety glasses		
Skin and body protection:		
Wear suitable protective clothing		
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#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

9.1. Information on basic physical	and chemical properties
Physical state	: Liquid
Appearance	: Water-white to amber liquid.
Color	: Water-white to amber
Odor	: pyridine-like
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 117 - 118 °C
Flash point	: 72 °F Closed cup
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.197 - 1.21
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	

SECT	SECTION 10: Stability and reactivity		
10.1.	10.1. Reactivity		
Highly	nmable liquid and vapour.		
10.2.	Chemical stability		
Stable	er normal conditions.		
10.3.	Possibility of hazardous reactions		
No dan	ous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
Avoid o	act with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.		
10.5.	Incompatible materials		
No add	No additional information available		
10.6.	10.6. Hazardous decomposition products		
Under	Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute t	city : Not classified		
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ATE US (oral)	500 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

#### 12.2. Persistence and degradability

#### No additional information available

### 12.3. Bioaccumulative potential

#### No additional information available

### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Additional information	: Flammable vapors may accumulate in the container.	
SECTION 14: Transport informa	tion	
Department of Transportation (DOT)		
In accordance with DOT		
Transport document description	: UN1993 Flammable liquids, n.o.s. (Thiazole), 3, II	
UN-No.(DOT)	: UN1993	
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s.	
	Thiazole	
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120	
Packing group (DOT)	: II - Medium Danger	
Hazard labels (DOT)	: 3 - Flammable liquid	
	PARMALE LIQUID	

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DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	<ul> <li>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenge vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessel in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport document description UN-No. (TDG)	: UN1993 FLAMMABLE LIQUID, N.O.S. (Thiazole), 3, II : UN1993
Proper Shipping Name (Transportation of Dangerous Goods)	: FLAMMABLE LIQUID, N.O.S.
TDG Primary Hazard Classes	: 3 - Class 3 - Flammable Liquids
Packing group	: II - Medium Danger
TDG Special Provisions	<ul> <li>16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parenthese on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1 the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name (a)UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b)UN1851, MEDICINI LIQUID, TOXIC, N.O.S; (c)UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O. (d)UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e)UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act". (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means containment: (a)UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b)UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS. SOR/2014-306,150 - An emergency response assistance plan (ERAP) is required for these dangerous goods under subsection 7.1(6) of Part 7 (Emergency Response Assistance Plan).</li> </ul>
Explosive Limit and Limited Quantity Index	: 1L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5 L
Transport by sea	
Transport document description (IMDG)	: UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II
UN-No. (IMDG)	: 1993 . El ammari e liquid n'o s
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids

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Packing group (IMDG) Limited quantities (IMDG)	<ul> <li>II - substances presenting medium danger</li> <li>1 L</li> </ul>
Air transport	
Transport document description (IATA)	: UN 1993 Flammable liquid, n.o.s., 3, II
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

### SECTION 15: Regulatory information

15.1. US Federal regulations		
Thiazole (288-47-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard	

#### 15.2. International regulations

#### CANADA

#### Thiazole (288-47-1)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

#### Thiazole (288-47-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### **National regulations**

Thiazole (288-47-1) Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIOC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 15.3. US State regulations

No additional information available

#### SECTION 16: Other information

Revision date

: 07/12/2016

#### Full text of H-phrases:

	H225	Highly flammable liquid and vapour
	H302	Harmful if swallowed
	H315	Causes skin irritation
	H318	Causes serious eye damage
	Н335	May cause respiratory irritation
NFPA	health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA	fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
NFPA reactivity		: 0 - Material that in themselves are normally stable, even under fire conditions.

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Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: G G - Safety glasses, Gloves, Vapor respirator

#### Synerzine US

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product