

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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# SECTION 1: Identification

# Identification

Product form : Substance

3(2H)-Thiophenone, dihydro-Substance name

CAS-No. 1003-04-9 Product code : (US) W0438 Formula C4H6OS

Dihydrothiophen-3(2H)-one / Tetrahydrothiophen-3-one / 4,5-Dihydrothiophen-3(2H)-one / 4,5-Dihydrothiophen-3(2H)-one / 4,5-Dihydrothiophen-3(2H)-one / 4,5-Dihydrothiophen-3(2H)-one Synonyms

Dihydro-3(2H)-thiophenone / Dihydro-3(2H)-thiophenone

#### Recommended use and restrictions on use

No additional information available

#### Supplier

Synerzine 5340 Hwy 42 S

Ellenwood, Georgia 30294 - USA T 404-524-6744 - F 404-577-1651

info@synerzine.com - www.synerzine.com

#### Emergency telephone number

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

# SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

#### GHS-US classification

Flammable liquids Category H227 Combustible liquid

Skin corrosion/irritation

H315

Causes skin irritation

Category 2

H319

Causes serious eye irritation

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity H335 May cause respiratory irritation

(single exposure) Category 3

Full text of H statements: see section 16

# GHS Label elements, including precautionary statements

### **GHS-US** labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H227 - Combustible liquid

> H315 - Causes skin irritation H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. heat, hot surfaces, open flames, sparks

P261 - Avoid breathing dust, fume, gas, spray, vapors, mist.

P264 - Wash hands thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P302+P352 - If on skin: Wash with plenty of water

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

P312 - Call a doctor, a POISON CENTER if you feel unwell

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P321 - Specific treatment (see first aid measures on this label) 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 alcohol resistant foam, carbon dioxide (CO2), dry sand to

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

#### Other hazards which do not result in classification

No additional information available

#### Unknown acute toxicity (GHS US)

Not applicable

# SECTION 3: Composition/Information on ingredients

#### Substances

Name	Product identifier	%	GHS-US classification
3(2H)-Thiophenone, dihydro- (Main constituent)	(CAS-No.) 1003-04-9	100	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 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

#### Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON First-aid measures after inhalation CENTER or doctor/physician if you feel unwell.

Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation First-aid measures after skin contact occurs: Wash with plenty of soap and water. Get medical advice/attention. Specific treatment (see

first aid measures on this label). Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Rinse immediately with plenty of water. Get medical

advice/attention. First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

# Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and Based on available data, the classification criteria are not met. symptoms

Symptoms/effects after inhalation May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after eye contact : Causes serious eye irritation.

#### Immediate medical attention and special treatment, if necessary

No additional information available

First-aid measures after eye contact

# SECTION 5: Fire-fighting measures

#### Suitable (and unsuitable) extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray. Sand. Suitable extinguishing media

Unsuitable extinguishing media Do not use a heavy water stream.

### Specific hazards arising from the chemical

Fire hazard : Combustible liquid.

Explosion hazard : May form flammable/explosive vapor-air mixture.

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#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical

fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No

smoking.

### **6.1.1.** For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. Keep away from

heat/sparks/open flame/hot surfaces. - No smoking.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking

and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Avoid breathing dust, fume, gas, spray, mist, vapors. Use only outdoors

or in a well-ventilated area.

Hygiene measures : Wash hands thoroughly after handling.

# 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep

in fireproof place. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

# 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures/Personal protective equipment

# $Personal\ protective\ equipment:$

Avoid all unnecessary exposure.

# Hand protection:

Wear protective gloves.

#### Eve protection:

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Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Wear appropriate mask

#### Other information:

Do not eat, drink or smoke during use.

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : colorless to light yellow
Odor : roasted, meaty, nutty odor

Odor threshold No data available : No data available рΗ Melting point No data available Freezing point No data available 80 °C @ 20 mmHg Boiling point Flash point : 155 °F closed cup : No data available Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) : Combustible liquid. Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available Specific gravity / density  $1.194 - 1.204 \text{ g/m}^3$ Molecular mass : 102.2 g/mol

Solubility : insoluble in water. soluble in alcohols.

Log Pow : No data available Auto-ignition temperature : No data available Decomposition temperature No data available Viscosity, kinematic No data available No data available Viscosity, dynamic : No data available **Explosion limits** : No data available Explosive properties : No data available Oxidizing properties

### 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

# 10.1. Reactivity

No additional information available

# 10.2. Chemical stability

Combustible liquid. May form flammable/explosive vapor-air mixture.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

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#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

# SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.

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

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.

# SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

# 12.2. Persistence and degradability

3(2H)-Thiophenone, dihydro- (1003-04-9)	
Persistence and degradability	Not established.

## 12.3. Bioaccumulative potential

# 3(2H)-Thiophenone, dihydro- (1003-04-9)

Bioaccumulative potential Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

# 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to manufactur's suggestion for disposal.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

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# SECTION 14: Transport information

# **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN3334 Aviation regulated liquid, n.o.s., 9

UN-No.(DOT) : UN3334

Proper Shipping Name (DOT) : Aviation regulated liquid, n.o.s.

Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)

: 204

: 155



DOT Packaging Non Bulk (49 CFR 173.xxx)

**DOT Symbols** : A - Material is regulated as a hazardous material only when transported by air, G - Identifies PSN

requiring a technical name

DOT Special Provisions (49 CFR 172.102) : A35 - This includes any material which is not covered by any of the other classes but which has an

anesthetic, narcotic, noxious or other similar properties such that, in the event of spillage or leakage on an aircraft, extreme annoyance or discomfort could be caused to crew members so as to

prevent the correct performance of assigned duties.

DOT Packaging Exceptions (49 CFR 173.xxx)

DOT Quantity Limitations Passenger aircraft/rail : 450 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

: 450 L

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger

Other information : No supplementary information available.

#### **Transportation of Dangerous Goods**

**DOT Vessel Stowage Location** 

## Transport by sea

: UN 3334 AVIATION REGULATED LIQUID, N.O.S., 9 Transport document description (IMDG)

UN-No. (IMDG) : 3334

: AVIATION REGULATED LIQUID, N.O.S. Proper Shipping Name (IMDG)

Class (IMDG) : 9 - Miscellaneous dangerous substances and articles

#### Air transport

Transport document description (IATA) : UN 3334 Aviation regulated liquid, n.o.s., 9

UN-No. (IATA)

Proper Shipping Name (IATA) : Aviation regulated liquid, n.o.s. Class (IATA) : 9 - Miscellaneous Dangerous Goods

## SECTION 15: Regulatory information

# 15.1. US Federal regulations

### 3(2H)-Thiophenone, dihydro- (1003-04-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# 15.2. International regulations

# **CANADA**

### 3(2H)-Thiophenone, dihydro- (1003-04-9)

Listed on the Canadian DSL (Domestic Substances List)

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#### **EU-Regulations**

### 3(2H)-Thiophenone, dihydro- (1003-04-9)

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

#### **National regulations**

#### 3(2H)-Thiophenone, dihydro- (1003-04-9)

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 INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 15.3. US State regulations

No additional information available

# SECTION 16: Other information

Other information : None.

Full text of H-phrases:

H227	Combustible liquid
Н315	Causes skin irritation
Н319	Causes serious eye irritation
H335	May cause respiratory irritation

NFPA health hazard

: 2 - Materials that, under emergency conditions, can cause

temporary incapacitation or residual injury.

: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can

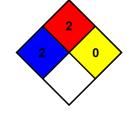
occur.

NFPA reactivity

NFPA fire hazard

: 0 - Material that in themselves are normally stable, even

under fire conditions.



**Hazard Rating** 

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but

below 200 F. (Classes II & IIIA)

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

: B

B - Safety glasses, Gloves

#### 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

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