

synerzine Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/25/2015 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 3-Furanthiol, 2-methyl-		
CAS-No.	: 28588-74-1		
Product code	: (US) W1388		
Formula	: C5H6OS		
Synonyms	: Furan-3-thiol, 2-methyl- / 2-Methyl-3-furanthiol / 2-Methylfuran-3-thiol		
1.2. Recommended use and restriction No additional information available	ons on use		
1.3.SupplierSynerzine5340 Hwy 42 SEllenwood, Georgia 30294 - USAT 404-524-6744 - F 404-577-1651info@synerzine.com - www.synerzine.com			
1.4. Emergency telephone number	: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US		
Emergency number	. mou ac 1-000-333-3033 (contract# 1024/1) Diat +1-332-323-3300 When outside the US		
SECTION 2: Hazard(s) identification	on la constante de la constante		
2.1. Classification of the substance of	or mixture		
GHS-US classification			
Flammable liquids Category H226	Flammable liquid and vapour		
3 Acute toxicity (oral) H301 Category 3	Toxic if swallowed		
Full text of H statements : see section 16			
2.2. GHS Label elements, including p	recautionary statements		
GHS-US labeling			
Hazard pictograms (GHS-US)			
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H226 - Flammable liquid and vapour H301 - Toxic if swallowed		
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 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. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear eye protection, face protection, protective clothing, protective gloves. P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P321 - Specific treatment (see supplemental first aid instructions on this label) P330 - Rinse mouth. P370+P378 - In case of fire: Use alcohol resistant foam, dry sand to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. 		

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ording to Federal Register / Vol. 77, No. 58 / Monday,	P501 - Dispose of contents/cont	tainer to an approved	waste dispo	sal plant
.3. Other hazards which do not re	sult in classification			
lo additional information available				
.4. Unknown acute toxicity (GHS	IS)			
ot applicable				
ECTION 3: Composition/Inform	tion on ingredients			
.1. Substances				
Name	P	Product identifier	%	GHS-US classification
3-Furanthiol, 2-methyl-		CAS-No.) 28588-74-1	95 - 100	Flam. Liq. 3, H226
(Main constituent)				Acute Tox. 3 (Oral), H301
ull text of hazard classes and H-statements : se	e section 16			
.2. Mixtures				
ot applicable				
ECTION 4: First-aid measures				
1. Description of first aid measu	es			
rst-aid measures general	: Call a physician immediately.			
rst-aid measures after inhalation	: Remove person to fresh air and	keep comfortable for	breathing.	
rst-aid measures after skin contact	: Rinse skin with water/shower.		nediately all	contaminated clothing.
rst-aid measures after eye contact	: Rinse eyes with water as a preca			
rst-aid measures after ingestion	: Rinse mouth. Call a physician in	nmediately.		
2. Most important symptoms and or additional information available	effects (acute and delayed)			
3. Immediate medical attention a	nd special treatment if peres	sarv		
reat symptomatically.	nu special treatment, it neces	sary		
ECTION 5: Fire-fighting measur				
1. Suitable (and unsuitable) exti		Carlana dia 11		
itable extinguishing media	: Water spray. Dry powder. Foam	. Carbon dioxide.		
2. Specific hazards arising from				
re hazard	: Flammable liquid and vapour.			
eactivity	: Flammable liquid and vapour.			
3. Special protective equipment				
rotection during firefighting	: Do not attempt to take action w apparatus. Complete protective		tive equipme	ent. Self-contained breathing
ECTION 6: Accidental release m	easures			
1. Personal precautions, protect	ve equipment and emergency	procedures		
1.1. For non-emergency personnel				
nergency procedures	: Ventilate spillage area. No open	flames, no sparks, and	d no smoking	5.
1.2. For emergency responders				
rotective equipment	: Do not attempt to take action w	ithout suitable protec	tive equipme	ent. For further information refer
	to section 8: "Exposure controls			
2. Environmental precautions				
roid release to the environment.				
3. Methods and material for con	ainment an <u>d cleaning up</u>			
ethods for cleaning up	: Take up liquid spill into absorbe	ent material. Notify au	thorities if p	roduct enters sewers or public
	waters.		- F	r
ther information	: Dispose of materials or solid res	sidues at an authorize	d site.	
4. Reference to other sections				
or further information refer to section 13.				
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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. 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.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inc	luding 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering of	controls
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Appearance	: An orange or orange-pink clear liquid.		
Color	: orange to orange-pink		
Odor	: roasted aroma meaty odor		
Odor threshold	: No data available		
pH	: No data available		
Melting point	: Not applicable		
Freezing point	: No data available		
Boiling point	: 136 °F @ 40 mm Hg		
Flash point	: 98 °F TCC		
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	: 1.142 - 1.147 g/cm ³		

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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

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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 toxicity	: Not classified	
3-Furanthiol, 2-methyl- (28588-74-1)		
ATE US (oral)	100 mg/kg body weight	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity – single exposure	: Not classified	
Specific target organ toxicity – repeated exposure	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information			
12.1.	Toxicity		
Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effe in the environment.			
12.2.	Persistence and degradability		
N 1.1.			

No additional information available

12.3.Bioaccumulative potentialNo additional information available

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects No additional information available

SECTION 13: Disposal considerations Disposal methods 13.1. 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 information Department of Transportation (DOT)** In accordance with DOT Transport document description : UN1228 Mercaptans, liquid, flammable, toxic, n.o.s., 3, III UN-No.(DOT) UN1228 Proper Shipping Name (DOT) : Mercaptans, liquid, flammable, toxic, n.o.s. Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 Packing group (DOT) : III - Minor Danger Hazard labels (DOT) : 3 - Flammable liquid 6.1 - Poison DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 242 DOT Special Provisions (49 CFR 172.102) : A6 - For combination packaging, if plastic inner packaging are used, they must be packed in tightly closed metal receptacles before packing in outer packaging. B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP. DOT Packaging Exceptions (49 CFR 173.xxx) : 150 DOT Quantity Limitations Passenger aircraft/rail : 5 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75

CFR 1/5./5J	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters",95 - Stow "separated from" foodstuffs
Other information	: No supplementary information available.

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Transportation of Dangerous Goods

Transport by sea

Transport document description (IMDG)	: UN 1228 MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S., 3 (6.1), III
UN-No. (IMDG)	: 1228
Proper Shipping Name (IMDG)	: MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Subsidiary risks (IMDG)	: 6.1 - Toxic substances
Limited quantities (IMDG)	: 5L

Air transport

Transport document description (IATA)		UN 1228 Mercaptans, liquid, flammable, toxic, n.o.s., 3 (6.1), III
UN-No. (IATA)		1228
Proper Shipping Name (IATA)		Mercaptans, liquid, flammable, toxic, n.o.s.
Class (IATA)	:	3 - Flammable Liquids
Packing group (IATA)	:	III - Minor Danger
Subsidiary risks (IATA)		6.1 - Toxic substances

SECTION 15: Regulatory information

15.1. US Federal regulations

3-Furanthiol, 2-methyl- (28588-74-1)

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

15.2. International regulations

CANADA

3-Furanthiol, 2-methyl- (28588-74-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

3-Furanthiol, 2-methyl- (28588-74-1)

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

National regulations

3-Furanthiol, 2-methyl- (28588-74-1)

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 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

Full text of H-phrases:

H226	Flammable liquid and vapour
H301	Toxic if swallowed

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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.
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