

synerzine[™] Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/04/2015 Version: 1.0

SECTION 1: Identific	ation	
1.1. Identification		
Product form		: Substance
Substance name		: 2-Furancarboxylic acid, propyl ester
CAS-No.		: 615-10-1
Product code		: (US) W1696
Formula		: C8H10O3
Synonyms		: 2-Furoic acid, propyl ester / Propyl 2-furoate
1.2. Recommended u	use and restriction	ons on use
No additional information ava	ailable	
1.3. Supplier		
Synerzine		
5340 Hwy 42 S Ellenwood, Georgia 30294 - U	ISA	
T 404-524-6744 - F 404-577-		
info@synerzine.com - www.sy	<u>vnerzine.com</u>	
1.4. Emergency tele	phone number	
Emergency number		: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US
SECTION 2: Hazard(s	s) identificatio	on
	f the substance of	
GHS-US classification		
Flammable liquids Category	H227	Combustible liquid
4 Acute toxicity (oral)	H301	Toxic if swallowed
Category 3	H201	Toxic II Swallowed
Skin corrosion/irritation	H315	Causes skin irritation
Category 2 Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation
Full text of H statements : see	section 16	
2.2. GHS Label elem GHS-US labeling	ents, including p	recautionary statements
Hazard pictograms (GHS-US)		
Signal word (GHS-US)		: Danger
Hazard statements (GHS-US)		: H227 - Combustible liquid H301 - Toxic if swallowed
		H301 - Toxic II swallowed H315 - Causes skin irritation
		H319 - Causes serious eye 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
		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
		P302+P352 - If on skin: Wash with plenty of soap and water
		P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
		P321 - Specific treatment (see supplemental first aid instructions on this label)
		P330 - Rinse mouth.
		P332+P313 - If skin irritation occurs: Get medical advice/attention.

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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, dry sand to extinguish.

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

2.3. Other hazards which do not result in classification

No additional information available

Unknown acute toxicity (GHS US) 2.4.

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	GHS-US classification
2-Furancarboxylic acid, propyl ester (Main constituent)	(CAS-No.) 615-10-1	97 - 100	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319

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

Mixtures 3.2. Not applicable SECTION 4: First-aid measures Description of first aid measures 4.1. First-aid measures general : Call a physician immediately. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. First-aid measures after eye contact Continue rinsing. If eye irritation persists: Get medical advice/attention. First-aid measures after ingestion : Rinse mouth. Call a physician immediately. 4.2. Most important symptoms and effects (acute and delayed) Symptoms/effects after skin contact : Irritation. Symptoms/effects after eye contact : Eve irritation. Immediate medical attention and special treatment, if necessary 4.3. Treat symptomatically. **SECTION 5: Fire-fighting measures** Suitable (and unsuitable) extinguishing media 5.1. : Water spray. Dry powder. Foam. Carbon dioxide. Suitable extinguishing media 5.2. Specific hazards arising from the chemical Fire hazard : Combustible liquid. Reactivity : The product is non-reactive under normal conditions of use, storage and transport. Special protective equipment and precautions for fire-fighters 5.3. : Do not attempt to take action without suitable protective equipment. Self-contained breathing Protection during firefighting apparatus. Complete protective clothing. SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures For non-emergency personnel 6.1.1. : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and Emergency procedures 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".

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6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for con	tainment 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 storag	e
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. Wear personal protective equipment. 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, in	ncluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool. Store locked up.
SECTION 8: Exposure controls/p	ersonal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering cont	rols
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measure	es/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 chemica	al properties
9.1. Information on basic physical	and chemical properties
Physical state	: Liquid
Appearance	: A colorless to pale yellow liquid.
Color	: colorless to pale yellow
Odor	: sweet, herbal, earthy odor
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 211 °C

Flash point

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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	: 1.065 - 1.085 g/cm ³
Molecular mass	: 154.165 g/mol
Solubility	: soluble in alcohols. insoluble in water.
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

The product is non-reactive under normal conditions of use, storage and transport.

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.

Not classified

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified	
2-Furancarboxylic acid, propyl ester (615-10-1)		
ATE US (oral)	100 mg/kg body weight	
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	: Not classified	
Specific target organ toxicity – repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Symptoms/effects after skin contact	: Irritation.	
Symptoms/effects after eye contact	: Eye irritation.	

A cute toxicity

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ECTION 12: Ecological informatic	
cology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
2.2. Persistence and degradability	
o additional information available	
2.3. Bioaccumulative potential	
lo additional information available	
2.4. Mobility in soil	
lo additional information available	
2.5. Other adverse effects	
.2.5. Other adverse effects	
ECTION 13: Disposal consideration	ons
.3.1. Disposal methods	
Vaste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
CCTION 14. Transport informatio	
ECTION 14: Transport informatio	n an
Department of Transportation (DOT)	
n accordance with DOT	
ransport document description	: NA1993 Combustible liquid, n.o.s., 3, III
N-No.(DOT)	: NA1993
roper Shipping Name (DOT)	: Combustible liquid, n.o.s.
lass (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
acking group (DOT)	: III - Minor Danger
OT Packaging Non Bulk (49 CFR 173.xxx)	: 203
OOT Packaging Bulk (49 CFR 173.xxx)	: 241
OOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN requirin
OOT Special Provisions (49 CFR 172.102)	a technical name : 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)
	UN2672). T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2) T4 - 2.65 178.274(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.
	: 150
OT Packaging Exceptions (49 CFR 173.xxx)	. 150
OT Quantity Limitations Passenger aircraft/rail	: 60 L
OT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27) OT Quantity Limitations Cargo aircraft only (49	
00T Packaging Exceptions (49 CFR 173.xxx) 00T Quantity Limitations Passenger aircraft/rail 49 CFR 173.27) 00T Quantity Limitations Cargo aircraft only (49 CFR 175.75) 00T Vessel Stowage Location	: 60 L

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Transportation of Dangerous Goods

Transport by sea

Air transport

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

2-Furancarboxylic acid, propyl ester (615-10-1) Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

2-Furancarboxylic acid, propyl ester (615-10-1)

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

National regulations

2-Furancarboxylic acid, propyl ester (615-10-1)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on NZIOC (New Zealand Inventory of Chemicals)

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:

ruii	text of n-pill ases:		
	H227	Combustible liquid	
	H301	Toxic if swallowed	
	H315	Causes skin irritation	
	H319	Causes serious eye irritation	
NFPA	health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.	
NFPA	fire hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.	
NFPA	reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	
Haza	ard Rating		
Heal	th	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flam	ımability	: 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)	
Phys	ical	 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors. 	
Pers	onal protection	: C	
		C - Safety glasses, Gloves, Synthetic apron	

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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