

Date of issue: 06/05/2015 Version: 1.0

Butannic acid, 3-xix, ethyl extr / Diacetic ether / EAA/ ENJI actosolatanoate / Ethyl actyl actosolatanoate / Ethyl actosolatanoate / Ethyl act	SECTION 1: Identification						
Subtance name : Phylacenacetate : Advance in the set of	1.1. Identification						
Subtance name : Phylacenacetate : Advance in the set of		: Substance					
CAS-No. : 11 97.9 Product code : (US) W0539 Fornutal : Col1003 Synonyms : Acetuacetite, ethyl / Acetuacetic acid, ethyl ester / Acetuacetic ester / Active acetyl acetar / Binyl acetyl acetar / Binyl acetyl acetar / Binyl acetyl acetar / Ethyl acetar	Substance name	: Ethyl acetoacetate					
Formula : CGH1003 Synoryms :: Acetoacetae, ethyl Acetoa, ethyl ester / Diacht ether / EAA / Ethyl 3-coxobutnotae / Ethyl 4-coxobutnotae / Ethyl 3-coxobutnotae / Ethyl 3-coxobutnota		5					
Formula : CGH1003 Synoryms :: Acetoacetae, ethyl Acetoa, ethyl ester / Diacht ether / EAA / Ethyl 3-coxobutnotae / Ethyl 4-coxobutnotae / Ethyl 3-coxobutnotae / Ethyl 3-coxobutnota	Product code	: (US) W0539					
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No additional information available 1.3. Supplier Synerzine S304 Diky 42 S Perform S304 Diky 4 S Perform S304 Di	Synonyms	: Acetoacetate, ethyl / Acetoacetic Butanoic acid, 3-oxo-, ethyl ester oxobutyrate / Ethyl acetyl acetate acetoacetate, mixed esters / Ethy	/ Diacetic ether / EA e / Ethyl acetylaceton	A / Ethyl 3- ate / 3-0xo	oxobutanoate / Ethyl 3- butanoic acid ethyl ester / Ethyl		
1.3. Suppler Synerzine Synerzine St40 Hwy 42 S Ellemvood. Georgia 30294 - USA Ellemvood. Georgia 30294 - USA Ellemvood. Georgia 30294 - USA Hwy 42 S Table 324, 674, 674, 674, 674, 674, 674, 674, 67	1.2. Recommended use and restricti	ons on use					
Synarzine S340 Hwy 42 S Ellenwood, Georgia 30294 - USA 7 404 - 524 - 6744 + 740 + 577 - 1651 Indidessure zince com - www.wynerzine.com SECTION 2: Hazard (s) identification 2.1. Classification of the substance or mixture GHS-US classification Flammable lugids Category H227< Combustible liquid	No additional information available						
SAU Huwy 428 Elemewood, Georgia 30294 - USA T 404-527-1651 Indidesynerzine.com - www.synerzine.com 1.4. Emergency telephone number Emergency mumber : Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US SECTION 2: Hazard(s) identification Combustible liquid A classification Flammable liquids Category H227 Combustible liquid 4 Flammable liquids Category H227 Combustible liquid Flammable liquids Category H227 Combustible liquid Flammable fliquids Category H227 Combustible liquid Fliquitee Hatements : see section 16 Sliquitee Hatements : see section 16 <td <="" colspan="2" td=""><td>1.3. Supplier</td><td></td><td></td><td></td><td></td></td>	<td>1.3. Supplier</td> <td></td> <td></td> <td></td> <td></td>		1.3. Supplier				
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3.2. Mixtures		(CA	S-No.) 141-97-9		Flam. Liq. 4, H227		
	Full text of hazard classes and H-statements : see	ection 16					
Not applicable	3.2. Mixtures						
	Not applicable						

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SECTION 4: First-aid measures	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4.1. Description of first aid measu	Ires
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Rinse eyes with water as a precaution. Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms an No additional information available	d effects (acute and delayed)
4.3. Immediate medical attention Treat symptomatically.	and special treatment, if necessary
SECTION 5: Fire-fighting measu	res
5.1. Suitable (and unsuitable) ext Suitable extinguishing media	inguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from	
Fire hazard Reactivity	: Combustible liquid. : The product is non-reactive under normal conditions of use, storage and transport.
5.3. Special protective equipment	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 r	
	tive equipment and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking.
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 cor	itainment 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.
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, i	ncluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/n	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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8.2. Appropriate engineering controls

- Appropriate engineering controls Environmental exposure controls
- Ensure good ventilation of the work station.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 Information on basic physical and chemical properties 9.1. Physical state : Liquid : A clear colorless to yellow liquid. Appearance Color Colorless : Odor : fruity rum Odor threshold No data available · : No data available pН Melting point : -44 - -39 °C Freezing point : No data available Boiling point : 180 - 181 °C Flash point 184 °F TCC Relative evaporation rate (butyl acetate=1) : No data available : Not applicable. Flammability (solid, gas) Vapor pressure : 1 hPa (at 20 °C) : No data available Relative vapor density at 20 °C : No data available Relative density Specific gravity / density : 1.024 - 1.029 g/cm³ Solubility Water: 125 g/l (at 16 °C) Log Pow : 0.27 Auto-ignition temperature 295 °C Decomposition temperature : No data available : No data available Viscosity, kinematic Viscosity, dynamic : No data available **Explosion** limits : No data available No data available **Explosive properties** 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.

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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
Ethyl acetoacetate (141-97-9)	
LD50 oral rat	3980 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
ATE US (oral)	3980 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	n
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Ethyl acetoacetate (141-97-9)	
LC50 fish 1	298 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	646 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	290 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	

Ethyl acetoacetate (141-97-9)		
Log Pow	0.27	

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideratio	ns
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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SECTION 14: Transport information

Department of Transportation	(DOT)

In accordance with DOT	
Transport document description	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 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). 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.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.

Transportation of Dangerous Goods

Transport	by	sea
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Air transport

SECTION 15: Regulatory information
15.1. US Federal regulations
Ethyl acetoacetate (141-97-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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15.4.	Internat	ionair	egulations

CANADA

Ethyl acetoacetate (141-97-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Ethyl acetoacetate (141-97-9)

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

National regulations

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Ethyl acetoacetate (141-97-9)	
Listed on the AICS (Australian Inventory of Chemical Substances)	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)	
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory	
Listed on the Japanese ISHL (Industrial Safety and Health Law)	
Listed on the Korean ECL (Existing Chemicals List)	
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 CICR (Turkish Inventory and Control of Chemicals)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	

Ethyl acetoacetate (141-97-9)	
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Full	text of H-phrases:	
	H227	Combustible liquid
NFPA	health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
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	: 0 Minimal Hazard - No significant risk to health
Flan	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	sical	: 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.
Pers	onal protection	: C
		C - Safety glasses, Gloves, Synthetic apron

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