

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/10/2015 Version: 1.0

SECTION 1: Identification Identification 1.1. Product form : Substance Substance name Acetic acid, 2-ethylbutyl ester CAS-No. 10031-87-5 Product code : (US) W0513 Formula C8H16O2 Synonyms 2-Ethylbutyl acetate / Ethyl caproate 1.2. Recommended use and restrictions on use No additional information available Supplier 1.3. 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 : Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US **Emergency** number SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture **GHS-US classification** Flammable liquids Category H226 Flammable liquid and vapour 3 Hazardous to the aquatic H402 Harmful to aquatic life environment - Acute Hazard Category 3 Hazardous to the aquatic H412 Harmful to aquatic life with long lasting effects environment - Chronic Hazard Category 3 Full text of H statements : see section 16 GHS Label elements, including precautionary statements 2.2. **GHS-US** labeling Hazard pictograms (GHS-US) Signal word (GHS-US) : Warning Hazard statements (GHS-US) H226 - Flammable liquid and vapour H402 - Harmful to aquatic life H412 - Harmful to aquatic life with long lasting effects 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. P273 - Avoid release to the environment. P280 - Wear eye protection, face protection, protective clothing, protective gloves. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry sand to extinguish.

Safety Data Sheet

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

P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to an approved waste disposal plant

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2.3. Other hazards which do not r	result in classification			
No additional information available				
2.4. Unknown acute toxicity (GHS	5 US)			
Not applicable				
SECTION 3: Composition/Inforn	nation on ingredients			
3.1. Substances				
Name		Product identifier	%	GHS-US classification
Acetic acid, 2-ethylbutyl ester (Main constituent)		(CAS-No.) 10031-87-5	98 - 100	Flam. Liq. 3, H226 Aquatic Acute 3, H402
				Aquatic Chronic 3, H412
Full text of hazard classes and H-statements : s	see section 16			
3.2. Mixtures				
Not applicable				
SECTION 4: First-aid measures				
4.1. Description of first aid meas				
First-aid measures after inhalation	: Remove person to fresh a	-	-	
First-aid measures after skin contact	: Rinse skin with water/sh		mediately all	contaminated clothing.
First-aid measures after eye contact	: Rinse eyes with water as			
First-aid measures after ingestion	: Call a poison center/doct	or/physician if you feel unv	vell.	
4.2. Most important symptoms an	nd effects (acute and delay	red)		
No additional information available				
4.3. Immediate medical attention	and special treatment, if	necessary		
Treat symptomatically.				
SECTION 5: Fire-fighting measu	ires			
5.1. Suitable (and unsuitable) ext				
Suitable extinguishing media	: Water spray. Dry powder	. Foam Carbon diovido		
		. Foani. Carbon dioxide.		
5.2. Specific hazards arising from				
Fire hazard	: Flammable liquid and va			
Reactivity	: Flammable liquid and va	pour.		
5.3. Special protective equipment	t and precautions for fire-	fighters		
Protection during firefighting	: Do not attempt to take ac apparatus. Complete pro-		ctive equipm	ent. Self-contained breathing
SECTION 6: Accidental release i	measures			
6.1. Personal precautions, protec	tive equipment and emerg	ency procedures		
6.1.1. For non-emergency personnel				
Emergency procedures	: Ventilate spillage area. N	o open flames, no sparks, ar	nd no smokin	g.
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take ac	tion without suitable protect	ctive equipm	ent. For further information refer
· · · · · · · · · · · · · · · · · · ·		ontrols/personal protection		
6.2. Environmental precautions				
Avoid release to the environment.				
6.3. Methods and material for co	ntainment and cleaning up			
Methods for cleaning up			uthorities if p	product enters sewers or public
Other information	: Dispose of materials or s	olid residues at an authorize	ed site.	
6.4. Reference to other sections				
For further information refer to section 13.				

Safety Data Sheet

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

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls	
	Ensure good ventilation of the work station. Avoid release to the environment.
	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	A clear liquid.	
Color	clear	
Odor :	fruity oily banana aroma	
Odor threshold :	No data available	
pH :	No data available	
Melting point :	Not applicable	
Freezing point :	No data available	
Boiling point :	160 °C	
Flash point :	127 °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	0.86 - 0.88 g/cm ³	

Safety Data Sheet

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

Molecular mass	: 144.21 g/mol
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 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

SECTION 12: Ecological information 12.1. Toxicity Ecology - general : Harmful to aquatic life with long lasting effects. Harmful to aquatic life. 12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

Aspiration hazard

: Not classified

Safety Data Sheet

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

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	bns
13.1. Disposal methods	
Waste treatment methods Additional information	Dispose of contents/container in accordance with licensed collector's sorting instructions.Flammable vapors may accumulate in the container.
SECTION 14: Transport informatio	n
Department of Transportation (DOT) In accordance with DOT	
Transport document description UN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT) Hazard labels (DOT)	 UN1177 2-Ethylbutyl acetate, 3, III UN1177 2-Ethylbutyl acetate 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 III - Minor Danger 3 - Flammable liquid
DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Special Provisions (49 CFR 172.102)	 203 242 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). T2 - 1.5 178.274(d)(2) Normal
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.
Emergency Response Guide (ERG) Number	: 130
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport by sea	
Transport document description (IMDG) UN-No. (IMDG)	: UN 1177 2-ETHYLBUTYL ACETATE, 3, III (54°C o.c.) : 1177

Safety Data Sheet

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

Proper Shipping Name (IMDG)	: 2-ETHYLBUTYL ACETATE
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5L
Air transport	
Transport document description (IATA)	: UN 1177 2-Ethylbutyl acetate, 3, III
UN-No. (IATA)	: 1177
Proper Shipping Name (IATA)	: 2-Ethylbutyl acetate
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger

15.1. US Federal regulations

Acetic acid, 2-ethylbutyl ester (10031-87-5)

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

15.2. International regulations

CANADA

Acetic acid, 2-ethylbutyl ester (10031-87-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Acetic acid, 2-ethylbutyl ester (10031-87-5)

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

National regulations

Acetic acid, 2-ethylbutyl ester (10031-87-5)

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 the TCSI (Taiwan Chemical Substance Inventory)

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15.3. US State regulations

Acetic acid, 2-ethylbutyl ester (10031-87-5) State or local regulations

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Full text of H-phrases:

H226	Flammable liquid and vapour
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet

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

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.
Hazard Rating	
Health	: 0 Minimal Hazard - No significant risk to health
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.

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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