

synerzine 1-Butanol, 3-methyl-, propanoate Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/29/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 1-Butanol, 3-methyl-, propanoate
CAS-No.	: 105-68-0
Product code	: (US) W01765
Formula	: C8H16O2
Synonyms	: 1-Butanol, 3-methyl-, 1-propanoate / 3-Methylbutyl propanoate / 3-Methylbutyl propionate / Propionic acid, isopentyl ester / Propanoate, 3-methyl-1-butyl / Isopentyl propionate / Isopentyl alcohol, propionate / Isoamyl propionate
1.2. Recommended use and restriction	ons on use
No additional information available	
1.3. Supplier	
Synerzine 5340 Hwy 42 S Ellenwood, Georgia 30294 - USA T 404-524-6744 - F 404-577-1651 <u>info@synerzine.com</u> - <u>www.synerzine.com</u>	
1.4. Emergency telephone number	
Emergency number	: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US
SECTION 2: Hazard(s) identificatio	n
2.1. Classification of the substance of	r mixture
GHS-US classification	
Flammable liquids Category H226	Flammable liquid and vapour
3	· · · · · · · · · · · · · · · · · · ·
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)	: Warning
Hazard statements (GHS-US)	: H226 - Flammable liquid and vapour
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. 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, dry sand to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to an approved waste disposal plant
2.3. Other hazards which do not resu	It in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

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SECTION 3: Composition/Inf				
3.1. Substances			1	
Name		Product identifier	%	GHS-US classification
1-Butanol, 3-methyl-, propanoate (Main constituent)		(CAS-No.) 105-68-0	98 - 100	Flam. Liq. 3, H226
Full text of hazard classes and H-statemen	ts : see section 16			
3.2. Mixtures				
Not applicable				
SECTION 4: First-aid measur	es			
4.1. Description of first aid m	easures			
First-aid measures after inhalation		air and keep comfortable for	breathing.	
First-aid measures after skin contact	•	nower. Remove/Take off imn	-	contaminated clothing.
First-aid measures after eye contact	: Rinse eyes with water as	•	5	Ū
First-aid measures after ingestion		tor/physician if you feel unw	ell.	
-	s and effects (acute and delay			
No additional information available	s and effects (acute and delay			
	tion and special treatment, if	necessary		
Treat symptomatically.				
SECTION 5: Fire-fighting mea	asures			
5.1. Suitable (and unsuitable)	extinguishing media			
Suitable extinguishing media	: Water spray. Dry powder	r. Foam. Carbon dioxide.		
5.2. Specific hazards arising fi	rom the chemical			
Fire hazard	: Flammable liquid and va	nour		
Reactivity	: Flammable liquid and va	•		
		-		
	nent and precautions for fire-			
Protection during firefighting	apparatus. Complete pro		tive equipm	ent. Self-contained breathing
SECTION 6: Accidental releas	se measures			
6.1. Personal precautions, pro	otective equipment and emerg	ency procedures		
6.1.1. For non-emergency personne	91			
Emergency procedures	: Ventilate spillage area. N	o open flames, no sparks, an	d no smokin	g.
		-		
6.1.2. For emergency responders	. Da	tion with out with him of	time '	ont For front
Protective equipment		ction without suitable protec ontrols/personal protection		ent. For further information refe
	L. L		•	
6.2. Environmental precautior Avoid release to the environment.				
	r containment and cleaning up			
Methods for cleaning up	: Take up liquid spill into a waters.	absorbent material. Notify au	thorities if p	product enters sewers or public
Other information		olid residues at an authorize	d site	
	•	at all dutionize	u 311 0 .	
6.4. Reference to other sectio				
For further information refer to section 13	3.			
SECTION 7: Handling and sto	orage			
7.1. Precautions for safe hand	lling			
Precautions for safe handling	: Ensure good ventilation of flames and other ignition Use only non-sparking to	ols. Take precautionary mea	nd/bond con sures agains	t, hot surfaces, sparks, open tainer and receiving equipment. st static discharge. Flammable ipment. Wear personal protectiv
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Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storag	e, including 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 control	s/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 mea	sures/Personal protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Appearance	: A clear, colorless liquid.		
Color	: Colorless		
Odor	: Sweet Fruity banana aroma pineapple ripe		
Odor threshold	: No data available		
рН	: No data available		
Melting point	: Not applicable		
Freezing point	: No data available		
Boiling point	: 156 - 160 °C		
Flash point	: 118 °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	: $0.865 - 0.873 \text{ g/cm}^3$		
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		

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Explosion limits	: No data available : No data available
Explosive properties Dxidizing properties	: No data available
0.2. Other information	
No additional information available	
SECTION 10: Stability and reactive	vity
10.1. Reactivity	
Flammable liquid and vapour.	
LO.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reacti	ons
No dangerous reactions known under normal co	nditions of use.
.0.4. Conditions to avoid	
woid contact with hot surfaces. Heat. No flames	, no sparks. Eliminate all sources of ignition.
word contact with not surfaces. ficat. No hames,	
10.5. Incompatible materials	
LO.5. Incompatible materials	lucts
10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition proc	fucts ardous decomposition products should not be produced.
10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition prod Under normal conditions of storage and use, haz	ardous decomposition products should not be produced.
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LO.5. Incompatible materials No additional information available LO.6. Hazardous decomposition prod Juder normal conditions of storage and use, haz SECTION 11: Toxicological inform L1.1. Information on toxicological e Acute toxicity 1-Butanol, 3-methyl-, propanoate (105-68-0 LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	ardous decomposition products should not be produced. nation ffects i Not classified Not classified Not classified Not classified
0.5. Incompatible materials No additional information available 0.6. Hazardous decomposition prod Juder normal conditions of storage and use, haz SECTION 11: Toxicological inform 1.1. Information on toxicological e Acute toxicity 1-Butanol, 3-methyl-, propanoate (105-68-0) LD50 oral rat Exin corrosion/irritation Gerious eye damage/irritation Gering eye eye damage/irritation Gering eye eye eye Gering eye <t< td=""><td>ardous decomposition products should not be produced. nation ffects Not classified Not classified Not classified Not classified Not classified Not classified</td></t<>	ardous decomposition products should not be produced. nation ffects Not classified Not classified Not classified Not classified Not classified Not classified
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LO.5. Incompatible materials No additional information available LO.6. Hazardous decomposition prod Juder normal conditions of storage and use, haz SECTION 11: Toxicological inform L1.1. Information on toxicological e Acute toxicity 1-Butanol, 3-methyl-, propanoate (105-68-0 LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation Germ cell mutagenicity Carcinogenicity Reproductive toxicity	ardous decomposition products should not be produced. nation ffects i Not classified > 4355 mg/kg i Not classified Not classified Not cl
10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition prod Under normal conditions of storage and use, haz SECTION 11: Toxicological inform 1.1. Information on toxicological e Acute toxicity 1-Butanol, 3-methyl-, propanoate (105-68-0)	ardous decomposition products should not be produced. nation ffects i Not classified > 4355 mg/kg i Not classified Not classified Not cl

SECTI	ON 12: Ecologic	al information
12.1.	Toxicity	

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2.	ersistence and degradability
No addit	l information available
12.3.	oaccumulative potential
No addi	al information available
12.4.	obility in soil
	obility in soil I information available

No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

 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 UN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT) Hazard labels (DOT)

- : UN3272 Esters, n.o.s., 3, III
- : UN3272
- : Esters, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : III Minor Danger
- : 3 Flammable liquid



: 203

: 242

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Special Provisions (49 CFR 172.102)

DOT Packaging Exceptions (49 CFR 173.xxx)

: B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk

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.
TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
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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		
Transport document description (IMDG)	:	UN 3272 ESTERS, N.O.S., 3, III
UN-No. (IMDG)	:	3272
Proper Shipping Name (IMDG)	:	ESTERS, N.O.S.
Class (IMDG)	:	3 - Flammable liquids

: 3 - Flammable liquids: III - substances presenting low danger

: 5 L

Packing group (IMDG)

Limited quantities (IMDG)

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Air transport

Transport document description (IATA)	: UN 3272 Esters, n.o.s., 3, III	
UN-No. (IATA)	: 3272	
Proper Shipping Name (IATA)	: Esters, n.o.s.	
Class (IATA)	: 3 - Flammable Liquids	
Packing group (IATA)	: III - Minor Danger	

SECTION 15: Regulatory information

15.1. US Federal regulations

1-Butanol, 3-methyl-, propanoate (105-68-0)

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

15.2. International regulations

CANADA

1-Butanol, 3-methyl-, propanoate (105-68-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

1-Butanol, 3-methyl-, propanoate (105-68-0)

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

National regulations

1-Butanol, 3-methyl-, propanoate (105-68-0) 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)

15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-phrases:	
H226	Flammable liquid and vapour
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.

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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.
Personal protection	: B B - Safety glasses, Gloves

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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