

Date of issue: 05/27/2015 Version: 1.0

1.1 Idontification	
1.1. Identification	
Product form	: Substance
Substance name	: Methyl butyrate
CAS-No.	: 623-42-7
Product code	: (US) W1363
Formula	: C5H1002
Synonyms	: Butanoate, methyl / Butanoic acid, methyl ester / Butyric acid, methyl ester / Methyl n-butyrate / Methyl butanoate / Butanoic acid methyl ester / Butyric acid methyl ester / Methyl-n-butyrate / Butyric(n-)acid methyl ester / Methyl buryrate
1.2. Recommended use and restrict	tions 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	
info@synerzine.com - www.synerzine.com	
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) identificat	ion
2.1. Classification of the substance	e or mixture
GHS-US classification	
GHS-US classification Flammable liquids Category H225	Highly flammable liquid and vapour
	Highly flammable liquid and vapour
Flammable liquids Category H225	Highly flammable liquid and vapour
Flammable liquids Category H225 2 Full text of H statements : see section 16	
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No additional information available

2.4. Unknown acute toxicity (GHS US)

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SECTION 3: Composition/Inforn 3.1. Substances					
		Droduct identifier	0/	CHS US classification	
Name Methyl butyrate		Product identifier (CAS-No.) 623-42-7	% 98 - 100	GHS-US classification Flam. Liq. 2, H225	
(Main constituent)				1,	
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	ures				
First-aid measures after inhalation	: Remove person to fresh a	air and keep comfortable for	breathing.		
First-aid measures after skin contact	: Rinse skin with water/sh	ower. Remove/Take off imm	nediately all	contaminated clothing.	
First-aid measures after eye contact	: Rinse eyes with water as	a precaution.			
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	/ed)			
No additional information available					
4.3. Immediate medical attention	and special treatment if	necessary			
Treat symptomatically.					
SECTION 5: Fire-fighting measu					
5.1. Suitable (and unsuitable) ext					
Suitable extinguishing media	: Water spray. Dry powder	. Foam. Carbon dioxide.			
5.2. Specific hazards arising from	the chemical				
Fire hazard	: Highly flammable liquid a				
Reactivity	: Highly flammable liquid a	: Highly flammable liquid and vapour.			
5.3. Special protective equipment	t and precautions for fire-f	fighters			
Protection during firefighting	: Do not attempt to take ac apparatus. Complete prot		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. No	o open flames, no sparks, an	d no smokin	g.	
	· · · · · · · · · · · · · · · · · · ·	<u> </u>		U	
6.1.2. For emergency responders	_				
Protective equipment		tion without suitable protection		ent. For further information refe	
			•		
6.2. Environmental precautions					
Avoid release to the environment.					
6.3. Methods and material for co					
Methods for cleaning up		bsorbent material. Notify a	uthorities if p	product enters sewers or public	
Other information	waters.	olid rociduos et er autha d	d cita		
Other information	: Dispose of materials or so	olid residues at an authorize	u site.		
6.4. Reference to other sections					
For further information refer to section 13.					
SECTION 7: Handling and storag	ge				
7.1. Precautions for safe handling					
Precautions for safe handling	: Ensure good ventilation of flames and other ignition Use only non-sparking to	sources. No smoking. Grou ols. Take precautionary mea	nd/bond con asures again:	t, hot surfaces, sparks, open tainer and receiving equipment. st static discharge. Flammable iipment. Wear personal protectiv	
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product. product. 2. Conditions for safe storage, including any incompatibilities chnical measures : Ground/bond container and receiving equipment. prage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. CCTION 8: Exposure controls/personal protection 1. Control parameters control parameters padditional information available : Ensure good ventilation of the work station. vironmental exposure controls : Avoid release to the environment. 3. Individual protection measures/Personal protective equipment individual protection measures/Personal protective equipment ind protection: : eprotection: : fety glasses in and body protection: : ear suitable protective clothing	ccording to Federal Register / Vol. 77, No. 58 / Mo	onday, March 26, 2012 / Rules and Regulations
chnical measures : Ground/bond container and receiving equipment. arage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. CCION 8: Exposure controls/personal protection C. Control parameters Appropriate engineering controls C. Approprise engineering controls C.	Hygiene measures	
Store in a well-ventilated place. Keep container tightly closed. CTION 8: Exposure controls/personal protection 1. Control parameters a additional information available 2. Appropriate engineering controls Fropriate engineering controls Fropriate engineering controls Fropriate engineering controls Avoid release to the environment. 3. Individual protection measures/Personal protective equipment Individual protection measures/Personal protective equipment For the protection:	7.2. Conditions for safe storag	e, including any incompatibilities
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and protection: otective gloves e protection: fety glasses in and body protection: ear suitable protective clothing	Environmental exposure controls	: Avoid release to the environment.
otective gloves e protection: fety glasses in and body protection: ear suitable protective clothing	8.3. Individual protection mea	sures/Personal protective equipment
e protection: fety glasses in and body protection: ear suitable protective clothing	Hand protection:	
fety glasses in and body protection: ear suitable protective clothing	Protective gloves	
in and body protection: ear suitable protective clothing	Eye protection:	
ear suitable protective clothing	Safety glasses	
	Skin and body protection:	
spiratory 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	· ·	
Physical state	: Liquid	
Appearance	: A light color liquid.	
Color	: light color	
Odor	: apple aroma	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: Not applicable	
Freezing point	: -85 °C	
Boiling point	: 102 °C	
Flash point	: 53 °F TCC	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Not applicable.	
Vapor pressure	: 1 mm Hg (at -26.8 °C)	
Vapor pressure at 50 °C	: 140 hPa	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Specific gravity / density	: $0.895 - 0.9 \text{ g/cm}^3$	
Molecular mass	: 102.13 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	
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Viscosity, dynamic	: No data available
Explosion limits	: 3.5 - 0.9 vol %
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactiv	lity
10.1. Reactivity	
Highly flammable liquid and vapour.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ons
No dangerous reactions known under normal con	nditions 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 prod	ucts
Under normal conditions of storage and use, haza	rdous decomposition products should not be produced.
SECTION 11: Toxicological inform	nation
11.1. Information on toxicological ef	fects
Acute toxicity	: Not classified
Methyl butyrate (623-42-7)	
LD50 oral rat	3380 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
ATE US (oral)	3380 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

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	DN 12: Ecological informatio	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.
12.2.	Persistence and degradability	
No additi	ional information available	
122	Bioaccumulative notential	

12.3.	Bioaccumulative potential
No addi	ional information available
12.4.	Mobility in soil
No addit	ional information available

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12.5. Other adverse effects

No additional information available

3.1. Disposal methods		
Vaste treatment methods		Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information		Flammable vapors may accumulate in the container.
ECTION 14: Transport informatio	n	
Department of Transportation (DOT) n accordance with DOT		
ransport document description	:	UN1237 Methyl butyrate, 3, II
JN-No.(DOT)	:	UN1237
Proper Shipping Name (DOT)	:	Methyl butyrate
Class (DOT)	:	3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)		II - Medium Danger
Hazard labels (DOT)		3 - Flammable liquid
		LAMMABLE LIQUID
OOT Packaging Non Bulk (49 CFR 173.xxx)	:	202
OOT Packaging Bulk (49 CFR 173.xxx)	:	242
OOT Special Provisions (49 CFR 172.102)	:	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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. T4 - 2.65 178.274(d)(2) Normal
OOT Packaging Exceptions (49 CFR 173.xxx)	:	150
OOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	:	5 L
OOT Quantity Limitations Cargo aircraft only (49 FR 175.75)	:	60 L
OOT Vessel Stowage Location	:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Emergency Response Guide (ERG) Number	:	129
Other information	:	No supplementary information available.
Fransportation of Dangerous Goods		
Fransport by sea		
ransport document description (IMDG)	:	UN 1237 METHYL BUTYRATE, 3, II (14°C c.c.)
JN-No. (IMDG)		1237
		METHYL BUTYRATE
	:	MEINILDUIIKAIE
Proper Shipping Name (IMDG)		
	:	3 - Flammable liquids II - substances presenting medium danger

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Air transport

Transport document description (IATA)	: UN 1237 Methyl butyrate, 3, II
UN-No. (IATA)	: 1237
Proper Shipping Name (IATA)	: Methyl butyrate
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Methyl butyrate (623-42-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes	Fire hazard	

15.2. International regulations

CANADA

Methyl butyrate (623-42-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Methyl butyrate (623-42-7)

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

National regulations

Methyl butyrate (623-42-7)
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
Methyl butyrate (623-42-7)

methyl butylate (025-42-7)	
State or local regulations	U.S Massachusetts - Right To Know List
	U.S New Jersey - Right to Know Hazardous Substance List
	U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Full text of H-phrases:			
	H225	Highly flammable liquid and vapour	
NFPA h	nealth hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.	
NFPA fi	ire hazard	 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions. 	
NFPA r	eactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	

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Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
	* - Chronic (long-term) health effects may result from repeated overexposure
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

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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