

synerzine Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/22/2015 Version: 1.0

SECTION 1: Identifica	ation	
1.1. Identification		
Product form	:	Substance
Substance name	:	Pentanoic acid, 3-methyl-
CAS-No.	:	105-43-1
Product code	:	(US) V645
Formula	:	С6Н12О2
Synonyms	:	3-Methylpentanoic acid / 3-Methylvaleric acid / 3-methyl valeric acid
1.2. Recommended u	se and restriction	s on use
No additional information avai	ilable	
1.3. Supplier Synerzine 5340 Hwy 42 S Ellenwood, Georgia 30294 - US 7404-524-6744 - F 404-577-1 info@synerzine.com - www.sy	651 <u>nerzine.com</u>	
1.4. Emergency telep		
Emergency number	:	Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US
SECTION 2: Hazard(s) identification	
	the substance or	
GHS-US classification		
Flammable liquids Category	H227	Combustible liquid
4		•
Skin corrosion/irritation Category 1B	H314	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Full text of H statements : see s	section 16	
2.2. GHS Label eleme	ants including pre	cautionary statements
GHS-US labeling	ints, including pre	cautonaly statements
Hazard pictograms (GHS-US)		A
Signal word (GHS-US)	:	Danger
Hazard statements (GHS-US)	:	H227 - Combustible liquid H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage
Precautionary statements (GHS	S-US) :	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, hot surfaces, open flames, sparks P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves, protective clothing, face protection, face shield. P301+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a doctor, a POISON CENTER P321 - Specific treatment (see first aid measures on this label) P363 - Wash contaminated clothing before reuse. P370+P378 - In case of fire: Use dry sand, alcohol resistant foam 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. 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				
2.4. Unknown acute toxicity (GH	S US)			
Not applicable				
SECTION 3: Composition/Infor	mation on ingredients	5		
3.1. Substances				
Name		Product identifier	%	GHS-US classification
Pentanoic acid, 3-methyl- (Main constituent)		(CAS-No.) 105-43-1	98 - 100	Flam. Liq. 4, H227 Skin Corr. 1B, H314 Eye Dam. 1, H318
Full text of hazard classes and H-statements :	see section 16			
3.2. Mixtures				
Notapplicable SECTION 4: First-aid measures				
4.1. Description of first aid meas First-aid measures after inhalation		h air and keep comfortable for	· hreathing	
First-aid measures after skin contact	: Wash skin with plenty		Si cauiiiig.	
First-aid measures after eve contact	: Rinse eyes with water			
First-aid measures after ingestion	5	octor/physician if you feel unv	vell.	
4.2. Most important symptoms a	nd effects <u>(acute and del</u>	ayed)		
No additional information available				
4.3. Immediate medical attention	n and special treatment, i	if necessary		
Treat symptomatically.				
SECTION 5: Fire-fighting measu	ıres			
5.1. Suitable (and unsuitable) ex	tinguishing media			
Suitable extinguishing media	: Water spray. Dry powe	ler. Foam. Carbon dioxide.		
5.2. Specific hazards arising from	n the chemical			
Fire hazard	: Combustible liquid.			
Reactivity	: The product is non-rea	ctive under normal condition	s of use, stora	age and transport.
5.3. Special protective equipmen				
Protection during firefighting	: Do not attempt to take apparatus. Complete p	action without suitable protector of the section of	ctive equipm	ent. Self-contained breathing
SECTION 6: Accidental release	measures			
6.1. Personal precautions, protec	ctive equipment and eme	rgency procedures		
6.1.1. For non-emergency personnel				
Emergency procedures	: Ventilate spillage area.	No open flames, no sparks, ar	ıd no smokin	g.
6.1.2. For emergency responders				
Protective equipment		action without suitable protection of the second seco		ent. For further information refer
6.2. Environmental precautions Avoid release to the environment.				
	ntainment and cleaning u	ıp		
Avoid release to the environment.			uthorities if p	product enters sewers or public

Safety Data Sheet

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

6.4. Reference to other sections	
For further information refer to section 13.	
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. 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, inclue	ding any incompatibilities
Storage conditions :	Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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			
9.1. Information on basic physical	9.1. Information on basic physical and chemical properties		
Physical state	: Liquid		
Color	: Colorless		
Odor	: No data available		
Odor threshold	: No data available		
pH	: No data available		
Melting point	: Not applicable		
Freezing point	: No data available		
Boiling point	: 90 °C @1 mmHg		
Flash point	: 185 °F closed cup		
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	: 0.92 - 0.94 20/20		
Molecular mass	: 116.2 g/mol		

Solubility

Safety Data Sheet

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

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.

SECTION 11: Toxicological information 11.1. Information on toxicological effects

Acute toxicity	:	Not classified
Skin corrosion/irritation	:	Causes severe skin burns and eye damage.
Serious eye damage/irritation	:	Causes serious eye damage.
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

SECTI	SECTION 12: Ecological 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.	Persistence and degradability			
No addit	ional information available			
12.3.	Bioaccumulative potential			
No addit	ional information available			
12.4.	Mobility in soil			
No addit	ional information available			

06/22/2018

Safety Data Sheet

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

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Disposal methods 13.1. Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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)

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) **DOT Symbols**

DOT Special Provisions (49 CFR 172.102)

- : UN3265 Corrosive liquid, acidic, organic, n.o.s., 8, II
- : UN3265
- : Corrosive liquid, acidic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : II Medium Danger
- : 8 Corrosive



:	20	2

- : 242
- : G Identifies PSN requiring a technical name
- B2 MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.

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. T11 - 6 178.274(d)(2) Normal..... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

: 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.

DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 30 L CFR 175.75)

DOT Vessel Stowage Location

DOT Vessel Stowage Other Other information

- : 154
- : 1L

: 40 - Stow "clear of living quarters"

: No supplementary information available.

Safety Data Sheet

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

Transportation of Dangerous Goods

Transport by sea

Transport document description (IMDG)	: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II
UN-No. (IMDG)	: 3265
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: II - substances presenting medium danger
Limited quantities (IMDG)	: 1L
and a second	

Air transport

Transport document description (IATA)	: UN 3265 Corrosive liquid, acidic, organic, n.c	o.s., 8, II
UN-No. (IATA)	: 3265	
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, organic, n.o.s.	
Class (IATA)	: 8 - Corrosives	
Packing group (IATA)	: II - Medium Danger	

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Pentanoic acid, 3-methyl- (105-43-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

15.2. International regulations

CANADA

Pentanoic acid, 3-methyl- (105-43-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Pentanoic acid, 3-methyl- (105-43-1)

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

National regulations

Pentanoic acid, 3-methyl- (105-43-1)

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 the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-phrases:

H227	Combustible liquid	
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	

Safety Data Sheet

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

NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent 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.
Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
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	: G
	G - Safety glasses, Gloves, Vapor respirator

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