

Date of issue: 05/28/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Methyl valerate
CAS-No.	: 624-24-8
Product code	: (US) W1359
Formula	: C6H12O2
Synonyms	: Methyl-n-valerate / Valeric acid methyl ester / Methyl pentanoate / Methyl n-valerate / Valeric acid, methyl ester / Pentanoic acid, methyl ester / Pentanoate, methyl
1.2. Recommended use and restrict	ions 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) identificati	on
2.1. Classification of the substance	or mixture
GHS-US classification	
Flammable liquids Category H225	Highly flammable liquid and vapour
2 Acute toxicity H331 (inhalation:vapour) Category 3	Toxic if inhaled
Full text of H statements : see section 16	
2.2. GHS Label elements, including	precautionary statements
GHS-US labeling	
Hazard pictograms (GHS-US)	
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H225 - Highly flammable liquid and vapour H331 - Toxic if inhaled
Precautionary statements (GHS-US)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, hot surfaces, open flames, sparks</li> <li>P233 - Keep container tightly closed.</li> <li>P240 - Ground/Bond container and receiving equipment</li> <li>P241 - Use explosion-proof electrical, lighting, ventilating equipment</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P311 - Call a doctor, a POISON CENTER</li> <li>P321 - Specific treatment (see first aid measures on this label)</li> <li>P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry sand to</li> </ul>

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	extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. 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 re	sult in classification			
No additional information available				
2.4. Unknown acute toxicity (GHS L	JS)			
Not applicable				
SECTION 3: Composition/Informa	ation on ingredients			
3.1. Substances				
Name		Product identifier	%	<b>GHS-US classification</b>
Methyl valerate (Main constituent)		(CAS-No.) 624-24-8	100	Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation:vapour), H331
ull text of hazard classes and H-statements : see	e section 16			
.2. Mixtures				
Not applicable				
ECTION 4: First-aid measures				
.1. Description of first aid measur	res			
ïrst-aid measures general		Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).		
irst-aid measures after inhalation	rest in a position comforta	Allow victim to breathe fresh air. Allow the victim to rest. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. Specific treatment (see First aid measures on this label).		
irst-aid measures after skin contact		Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.		
irst-aid measures after eye contact	: Rinse immediately with ple persists.	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.		
First-aid measures after ingestion	: Rinse mouth. Do NOT indu	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.		
.2. Most important symptoms and				
otential Adverse human health effects and ymptoms	: Based on available data, th	e classification criteria are	e not met. T	oxic if inhaled.
ymptoms/effects after inhalation	: Toxic if inhaled. Danger of	serious damage to health	by prolong	ed exposure through inhalation.
.3. Immediate medical attention a	and special treatment, if n	ecessary		
No additional information available				
SECTION 5: Fire-fighting measure	es			
.1. Suitable (and unsuitable) extin	nguishing media			
uitable extinguishing media	: Foam. Dry powder. Carbor		ıd.	
Insuitable extinguishing media	: Do not use a heavy water s	stream.		
.2. Specific hazards arising from t				
ire hazard	: Highly flammable liquid ar	-		
xplosion hazard	: May form flammable/expl	osive vapor-air mixture.		
.3. Special protective equipment				
irefighting instructions	fire. Prevent fire-fighting v	vater from entering enviro	nment.	caution when fighting any chemical
Protection during firefighting	: Do not enter fire area with	out proper protective equ	ipment, inc	luding respiratory protection.
ECTION 6: Accidental release m	easures			
.1. Personal precautions, protecti		ncy procedur <u>es</u>		
Conoral management		Ico aposial save to evoid at		

General measures

: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

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6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. N	lotify authorities if liquid enters sewers or public waters.
6.3. Methods and material for c	ontainment and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and person	al protection.
SECTION 7: Handling and stora	age
7.1. Precautions for safe handlin	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, spray, vapors.
7.2. Conditions for safe storage,	, including any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof chemical equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep in fireproof place. Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

No additional information available

## 8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear protective gloves.

### Eye protection:

Chemical goggles or safety glasses

## Respiratory protection:

Wear appropriate mask

## Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemica	al properties
9.1. Information on basic physical	and chemical properties
Physical state	: Liquid
Color	: Colorless to pale straw
Odor	: pungent-ethereal, green, apple-like odor
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 127 °C
Flash point	: 72 °F closed cup
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapour.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 0.883 - 0.895
Molecular mass	: 116.2 g/mol
Solubility	: insoluble in water. soluble in alcohols.
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 reacting	vity
10.1. Reactivity	
No additional information available	

10.2. Chemical stability
Highly flammable liquid and vapour. May form flammable/explosive vapor-air mixture.
10.3. Possibility of hazardous reactions
Not established.
10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures. Open flame.
10.5. Incompatible materials
Strong acids. Strong bases.
10.6. Hazardous decomposition products
fume. Carbon monoxide. Carbon dioxide. May release flammable gases.
SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects Not classified Acute toxicity

Acute toxicity :	Not classified
Methyl valerate (624-24-8)	
ATE US (vapors)	3 mg/l/4h
Skin corrosion/irritation :	Not classified
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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
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Toxic if inhaled.
Symptoms/effects after inhalation	: Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation.

SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
Methyl valerate (624-24-8)	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Methyl valerate (624-24-8)	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	

12.5. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations			
13.1. Disposal methods			
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to manufactur's suggestion for disposal.		
Additional information	: Handle empty containers with care because residual vapors are flammable.		
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.		

## 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, II

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



DOT Packaging Non Bulk (49 CFR 173.xxx)

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DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	<ul> <li>: 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.</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenge 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.
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport by sea	
Transport document description (IMDG)	: UN 3272 ESTERS, N.O.S., 3, II
UN-No. (IMDG)	: 3272
Proper Shipping Name (IMDG)	: ESTERS, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Limited quantities (IMDG)	: 1L
Air transport	
Transport document description (IATA)	: UN 3272 Esters, n.o.s., 3, II
UN-No. (IATA)	: 3272
Proper Shipping Name (IATA)	: Esters, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

## 15.1. US Federal regulations

Methyl valerate (624-24-8)

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

### 15.2. International regulations

#### CANADA

Methyl valerate (624-24-8)

Listed on the Canadian NDSL (Non-Domestic Substances List)

## **EU-Regulations**

Methyl valerate (624-24-8)

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

## **National regulations**

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#### Methyl valerate (624-24-8)

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**

Other information

: None.

Full text of H-phrases:	
H225	Highly flammable liquid and vapour
H331	Toxic if inhaled
NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	<ul> <li>3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.</li> </ul>
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
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	: B
	B - Safety glasses, Gloves

#### 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