

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

Date of issue: 05/29/2015 Revision date: 01/25/2016

## SECTION 1: Identification

## Identification

Product form : Substance

Substance name Butanoic acid, 1-methyl-2-oxopropyl ester

CAS-No. 84642-61-5 Product code : (US) W2243 Formula C8H14O3

Butan-3-one-2-yl butanoate / Butanoate, 1-methyl-2-oxopropyl / 1-Methyl-2-oxopropyl butyrate / Synonyms

Butan-3- One-2-YL Butanoate / sec-Butan-3-onyl butyrate

### Recommended use and restrictions on use

No additional information available

### 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

: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US Emergency number

## SECTION 2: Hazard(s) identification

### Classification of the substance or mixture

### GHS-US classification

Flammable liquids Category H227 Combustible liquid

Full text of H statements: see section 16

## GHS Label elements, including precautionary statements

## **GHS-US** labeling

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H227 - Combustible liquid

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

P280 - Wear eye protection, face protection, protective clothing, protective gloves. P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), 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

## Other hazards which do not result in classification

No additional information available

### Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Name	Product identifier	%	GHS-US classification
Butanoic acid, 1-methyl-2-oxopropyl ester	(CAS-No.) 84642-61-5	98 - 100	Flam. Liq. 4, H227
(Main constituent)			

Full text of hazard classes and H-statements: see section 16

### Mixtures

Not applicable

06/22/2018 EN (English US) Page 1

## Safety Data Sheet

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

## SECTION 4: First-aid measures

### Description of first aid measures

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice First-aid measures general

(show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse.

First-aid measures after eye contact Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. First-aid measures after ingestion

## Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects

: Not expected to present a significant hazard under anticipated conditions of normal use.

## Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

## Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### Specific hazards arising from the chemical

Fire hazard : Combustible liquid.

: May form flammable/explosive vapor-air mixture. Explosion hazard

## Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical

fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

## Personal precautions, protective equipment and emergency procedures

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

smoking.

#### 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.

## **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

## Methods and material for containment and cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect Methods for cleaning up

spillage. Store away from other materials.

## Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. Keep away from heat/sparks/open flame/hot surfaces. - No smoking.

06/22/2018 EN (English US) 2/6

## Safety Data Sheet

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

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.

## 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep

container closed when not in use. Keep in fireproof place.

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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : colorless to pale yellow

Odor : fruity, cheese, sweet, red berry odor

Odor threshold : No data available pH : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available response to the solution of t

Flash point : 179 °F closed cup
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Combustible liquid.
Vapor pressure : No data available
Relative vapor density at 20 °C : No data available
Relative density : No data available
Specific gravity / density : 0.975 - 0.983 g/ml
Molecular mass : 158.2 g/mol

Solubility : insoluble in water. Soluble in organic solvents.

Log Pow : No data available

06/22/2018 EN (English US) 3/6

## Safety Data Sheet

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

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

No additional information available

## 10.2. Chemical stability

Combustible liquid. 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. Overheating. Heat. Sparks.

### 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

Acute toxicity : Not classified Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified : Not classified Respiratory or skin sensitization Not classified Germ cell mutagenicity Carcinogenicity : Not classified : Not classified Reproductive toxicity 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.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

## SECTION 12: Ecological information

## 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

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Persistence and degradability	Not established.

## 12.3. Bioaccumulative potential

## Butanoic acid, 1-methyl-2-oxopropyl ester (84642-61-5)

Bioaccumulative potential Not established.

06/22/2018 EN (English US) 4/6

## Safety Data Sheet

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

#### 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.

: Handle empty containers with care because residual vapors are flammable. Additional information

Ecology - waste materials Avoid release to the environment.

## SECTION 14: Transport information

## **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : NA1993 Combustible liquid, n.o.s., 3, III

UN-No.(DOT) : NA1993

Proper Shipping Name (DOT) : Combustible liquid, n.o.s.

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 Class (DOT)

Packing group (DOT) : III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 : 241 DOT Packaging Bulk (49 CFR 173.xxx)

**DOT Symbols** : D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN requiring

a technical name

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite DOT Special Provisions (49 CFR 172.102)

(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)

T1 - 1.5 178.274(d)(2) Normal...... 178.275(d)(2) T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

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.

DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

**DOT Vessel Stowage Location** 

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger

vessel : 128

Emergency Response Guide (ERG) Number

Other information : No supplementary information available.

## **Transportation of Dangerous Goods**

### Transport by sea

Not regulated

### Air transport

Not regulated

06/22/2018 EN (English US) 5/6

## Safety Data Sheet

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

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

No additional information available

## 15.2. International regulations

### **CANADA**

### Butanoic acid, 1-methyl-2-oxopropyl ester (84642-61-5)

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

### **EU-Regulations**

## Butanoic acid, 1-methyl-2-oxopropyl ester (84642-61-5)

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

## **National regulations**

## Butanoic acid, 1-methyl-2-oxopropyl ester (84642-61-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

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

Revision date : 01/25/2016 Other information : None.

Full text of H-phrases:		
H227	Combustible liquid	
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		
II - alala	O Minimal Hannel Na simificant violate health	

Health : 0 Minimal Hazard - No significant risk to health

2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient Flammability temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but

below 200 F. (Classes II & IIIA)

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 - Safety glasses, Gloves

### Synerzine US

Physical

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

06/22/2018 EN (English US) 6/6