

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

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### SECTION 1: Identification

### Identification

Product form : Substance

Isobutyl propionate Substance name

CAS-No. 540-42-1 Product code : (US) W0941 Formula C7H14O2

Propanoate, 2-methylpropyl / Propanoic acid, 2-methylpropyl ester / Propionic acid, isobutyl ester Synonyms

/ 2-Methylpropyl propanoate

### 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

### 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 H226 Flammable liquid and vapour

Full text of H statements: see section 16

### GHS Label elements, including precautionary statements

### **GHS-US** labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H226 - Flammable liquid and vapour

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Precautionary statements (GHS-US)

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, 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

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

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# SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Name	Product identifier	%	GHS-US classification
Isobutyl propionate (Main constituent)	(CAS-No.) 540-42-1	100	Flam. Liq. 3, H226

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

### 3.2. Mixtures

Not applicable

### SECTION 4: First-aid measures

### 4.1. Description of first aid measures

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

(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/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

persists.

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

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

Potential Adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

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

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

### SECTION 5: Fire-fighting measures

### 5.1. 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.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Flammable liquid and vapour.

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

# 5.3. 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

# 6.1. 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.

### 6.2. Environmental precautions

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

### 6.3. Methods and material for containment 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.

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#### 6.4. 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.

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. Take precautionary measures against static discharge. Use only nonsparking tools.

# 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 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.

### SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : Colorless

Odor : odor similar to the ethyl ester

Odor threshold : No data available pH : No data available

Melting point : -71 °C

Freezing point : No data available

Boiling point : 138 °C

Flash point : 80 °F closed cup Relative evaporation rate (butyl acetate=1) : No data available

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Flammability (solid, gas) : 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 : 0.86 - 0.869 g/ml Molecular mass : 130.18 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 No data available Viscosity, dynamic : No data available **Explosion limits** 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

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. 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 Respiratory or skin sensitization Not classified Germ cell mutagenicity Not classified 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.

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# SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

### Persistence and degradability

Icobut	ol pro	pionate	(540-	42-11
ารอยนเ	yı pro	promate	(34U-	+4-1

Persistence and degradability Not established.

### Bioaccumulative potential

### Isobutyl propionate (540-42-1)

Not established. Bioaccumulative potential

### 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 : UN2394 Isobutyl propionate, 3, III

UN-No.(DOT) : UN2394

Proper Shipping Name (DOT) : Isobutyl propionate

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

Packing group (DOT) : III - Minor Danger Hazard labels (DOT) : 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) 242

DOT Special Provisions (49 CFR 172.102) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash

point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter

are applicable.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (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

T2 - 1.5 178.274(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)

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**DOT Vessel Stowage Location** 

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DOT Quantity Limitations Passenger aircraft/rail : 60 I

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

: 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.

### **Transportation of Dangerous Goods**

#### Transport by sea

Transport document description (IMDG) : UN 2394 ISOBUTYL PROPIONATE, 3, III (31°C c.c.)

UN-No. (IMDG) : 2394

Proper Shipping Name (IMDG) : ISOBUTYL PROPIONATE Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : III - substances presenting low danger

Limited quantities (IMDG) : 5 L

### Air transport

Transport document description (IATA) : UN 2394 Isobutyl propionate, 3, III

UN-No. (IATA) : 2394

Proper Shipping Name (IATA) : Isobutyl propionate
Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : III - Minor Danger

# SECTION 15: Regulatory information

### 15.1. US Federal regulations

### Isobutyl propionate (540-42-1)

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

### 15.2. International regulations

### CANADA

### Isobutyl propionate (540-42-1)

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

### **EU-Regulations**

### Isobutyl propionate (540-42-1)

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

### **National regulations**

# Isobutyl propionate (540-42-1)

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 INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

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15.3. US State regulations	
Isobutyl propionate (540-42-1)	
State or local regulations	U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other in	formation	
Other information	: None.	
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	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.	
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	
Hazard Rating		
Health	: 0 Minimal Hazard - No significant risk to health	
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	: В	
	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

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