

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

2-Butenoic acid, 2-methyl-, hexyl ester, (E)-Substance name

CAS-No. 16930-96-4 Product code : (US) W01749 Formula C11H20O2

But-2-enoate, 2-methyl-, hexyl, (E)- / 2-Butenoic acid, 2-methyl-, hexyl ester, (2E)- / Hexyl Synonyms

crotonate / Hexyl tiglate / 2-Butenoic acid, 2-methyl-, hexyl ester,(E)-

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

Skin corrosion/irritation H315 Causes skin irritation

Category 2 Serious eye damage/eye

H319

irritation Category 2A

Specific target organ toxicity

(single exposure) Category 3

H335

May cause respiratory irritation

Causes serious eye irritation

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

: H315 - Causes skin irritation Hazard statements (GHS-US)

H319 - Causes serious eve irritation H335 - May cause respiratory irritation

: P261 - Avoid breathing fume, gas, mist, spray, vapors. Precautionary statements (GHS-US)

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P302+P352 - If on skin: Wash with plenty of soap and water

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 P312 - Call a doctor, a POISON CENTER if you feel unwell

P321 - Specific treatment (see supplemental first aid instructions on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

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P405 - Store locked up.

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
2-Butenoic acid, 2-methyl-, hexyl ester, (E)- (Main constituent)	(CAS-No.) 16930-96-4	96 - 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

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

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

Description of first aid measures

First-aid measures general : Call a poison center/doctor/physician if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor/physician if you feel unwell.

First-aid measures after skin contact Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Irritation. Symptoms/effects after eye contact : Eye irritation.

Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

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

Specific hazards arising from the chemical 5.2.

: The product is non-reactive under normal conditions of use, storage and transport. Reactivity

Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

 $: \ \ Ventilate \ spillage \ area. \ Avoid \ breathing \ fume, gas, mist, spray, vapors. \ Avoid \ contact \ with \ skin \ and$ **Emergency procedures** eves.

For emergency responders

: Do not attempt to take action without suitable protective equipment. For further information refer Protective equipment

to section 8: "Exposure controls/personal protection".

Environmental precautions

Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

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 : Use only outdoors or in a well-ventilated area. Avoid breathing fume, gas, mist, spray, vapors.

Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : 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 and chemical properties

Physical state : Liquid

Appearance : A water-white to pale yellow liquid.

Color : water-white to pale yellow
Odor : sweet-green herbaceous
Odor threshold : No data available

pH : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : 108 °C @ 16 mmHg

Flash point : 209 °F TCC

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

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Relative density No data available Specific gravity / density $0.889 - 0.899 \text{ g/cm}^3$ Solubility No data available Log Pow No data available No data available Auto-ignition temperature Decomposition temperature : No data available Viscosity, kinematic No data available : No data available Viscosity, dynamic **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

None under recommended storage and handling conditions (see section 7).

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 skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : May cause respiratory irritation.

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

 $Symptoms/effects \ after \ inhalation \\ \hspace*{2.5cm} : \ \ May \ cause \ respiratory \ irritation.$

Symptoms/effects after skin contact : Irritation.
Symptoms/effects after eye contact : Eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

 $Ecology - general \\ \hspace{2cm} : \hspace{2cm} The \hspace{1cm} product \hspace{1cm} is \hspace{1cm} not \hspace{1cm} considered \hspace{1cm} harmful \hspace{1cm} to \hspace{1cm} aquatic \hspace{1cm} organisms \hspace{1cm} or \hspace{1cm} to \hspace{1cm} cause \hspace{1cm} long-term \hspace{1cm} adverse \hspace{1cm} effects \hspace{1cm} is \hspace{1cm} harmful \hspace{1cm} to \hspace{1cm} aquatic \hspace{1cm} organisms \hspace{1cm} or \hspace{1cm} to \hspace{1cm} cause \hspace{1cm} long-term \hspace{1cm} adverse \hspace{1cm} effects \hspace{1cm} is \hspace{1cm} harmful \hspace{1cm} to \hspace{1cm} aquatic \hspace{1cm} organisms \hspace{1cm} or \hspace{1cm} to \hspace{1cm} cause \hspace{1cm} long-term \hspace{1cm} adverse \hspace{1cm} effects \hspace{1cm} adverse \hspace{1cm} or \hspace{1cm} adverse \hspace{1cm} effects \hspace{1cm} adverse \hspace{1cm} or \hspace{1cm} adverse$

in the environment.

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12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Other information

: No supplementary information available.

Transportation of Dangerous Goods

Transport by sea

Air transport

SECTION 15: Regulatory information

15.1. US Federal regulations

2-Butenoic acid, 2-methyl-, hexyl ester, (E)- (16930-96-4)

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

15.2. International regulations

CANADA

2-Butenoic acid, 2-methyl-, hexyl ester, (E)- (16930-96-4)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

2-Butenoic acid, 2-methyl-, hexyl ester, (E)- (16930-96-4)

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

National regulations

2-Butenoic acid, 2-methyl-, hexyl ester, (E)- (16930-96-4)

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

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SECTION 16: Other information

Full text of H-phrases:

Н315	Causes skin irritation
Н319	Causes serious eye irritation
Н335	May cause respiratory irritation

NFPA health hazard

 $: \ \, 2 \text{ -} \, \text{Materials that, under emergency conditions, can cause} \\$

temporary incapacitation or residual injury.

NFPA fire hazard

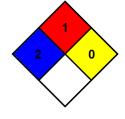
 $: \ \ 1 \text{-} \ \text{Materials that must be preheated before ignition can}$

occur.

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

 $: \ 1\,Slight\,Hazard\,-\,Materials\,that\,must\,be\,preheated\,before\,ignition\,will\,occur.\,Includes\,liquids,\\$

solids and semi solids having a flash point above 200 F. (Class IIIB)

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

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

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