

Safety Data Sheet

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

Date of issue: 06/06/2015 Version: 1.0

## SECTION 1: Identification

#### 1.1. Identification

Product form : Substance

Substance name : 2-Butenoic acid, 2-methyl-, 3,7-dimethyl-2,6-octadienyl ester, (E,E)-

Chemical name : Geranyl tiglate
CAS-No. : 7785-33-3
Product code : (US) W020
Formula : C15H2402

Synonyms : But-2-enoate, 2-methyl-, 3,7-dimethyl- 2,6-octadienyl, (E,E)- / (E)-3,7-Dimethyl-2,6-octadienyl 2-

methylcrotonate / 2,6-Octadien-1-ol, 3,7-dimethyl-, 2-methyl-2-butenoate, (E,E,E)- / Geranyl 2-methylcrotonate / 2-Butenoic acid, 2-methyl-, (2E)-3,7-dimethyl-2,6-octadienyl ester, (2E)- / Geranyl tiglate / 2-Butenoic acid, 2-methyl-, (2E)-3,7-dimethyl-2,6-octadien-1-yl ester, (2E)- / 2-Methyl-(2E)-2-pentenoic acid ethyl ester / (2E)-3,7-Dimethyl-2,6-octadien-1-yl (2E)-2-methyl-2-

butenoate

#### 1.2. Recommended use and restrictions 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 info@synerzine.com - www.synerzine.com

#### 1.4. Emergency telephone number

 $Emergency \ number \\ : \ Infotrac \ 1-800-535-5053 \ (Contract \# \ 102471) \ Dial \ +1-352-323-3500 \ when \ outside \ the \ US \ and \ Support \ Appendix \ Append$ 

## SECTION 2: Hazard(s) identification

## 2.1. Classification of the substance or mixture

#### GHS-US classification

Skin corrosion/irritation H315 Causes skin irritation

Category 2

Serious eye damage/eye H319 Causes serious eye irritation

irritation Category 2A

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) : Warning

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

H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P264 - Wash hands, forearms and face thoroughly after handling.

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

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

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

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.

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## 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. 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-, 3,7-dimethyl-2,6-octadienyl ester, (E,E)-	(CAS-No.) 7785-33-3	94 - 100	Skin Irrit. 2, H315
(Main constituent)			Eye Irrit. 2A, H319

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 after inhalation : Remove person to fresh air and keep comfortable for breathing.

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.

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

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

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

Treat symptomatically.

#### SECTION 5: Fire-fighting measures

## 5.1. Suitable (and unsuitable) extinguishing media

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

## 5.2. Specific hazards arising from the chemical

 ${\bf Reactivity} \hspace{1.5cm} : \hspace{.2cm} {\bf The \ product \ is \ non-reactive \ under \ normal \ conditions \ of \ use, \ storage \ and \ transport.}$ 

## 5.3. 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

## 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 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.

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## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. 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 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 : 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 colorless to pale yellow liquid.

Color : colorless to pale yellow

Odor : pleasant sweet herbaceous geranium-like odor

Odor threshold No data available рΗ No data available Melting point Not applicable Freezing point No data available : 271 - 272 °C Boiling point : > 235 °F TCC Flash point 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 : 0.916 - 0.926 g/cm³

Molecular mass : 236.36 g/mol

Solubility : Soluble in alcohols. insoluble in water.

Log Pow : No data available
Auto-ignition temperature : No data available

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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

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

2-Butenoic acid, 2-methyl-, 3,7-dimethyl-2,6-octadienyl ester, (E,E)- (7785-33-3)		
LD50 oral rat	> 5 g/kg	
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	: Not classified	
Specific target organ toxicity – repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Symptoms/effects after skin contact	: Irritation.	
Symptoms/effects after eye contact	: Eye irritation.	

## 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 additional information available

#### 12.3. Bioaccumulative potential

No additional information available

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#### 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-, 3,7-dimethyl-2,6-octadienyl ester, (E,E)- (7785-33-3)

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

## 15.2. International regulations

#### **CANADA**

## 2-Butenoic acid, 2-methyl-, 3,7-dimethyl-2,6-octadienyl ester, (E,E)- (7785-33-3)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

## 2-Butenoic acid, 2-methyl-, 3,7-dimethyl-2,6-octadienyl ester, (E,E)-(7785-33-3)

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

#### National regulations

## 2-Butenoic acid, 2-methyl-, 3,7-dimethyl-2,6-octadienyl ester, (E,E)- (7785-33-3)

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 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

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Full text of H-phra
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	Н315	Causes skin irritation
	Н319	Causes serious eye irritation
FPA	health hazard	: 2 - Materials that, under emergency conditions, can cause

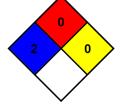
NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



Hazard Rating

Physical

NFPA fire hazard

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard - Materials that will not burn

 $: \hspace{0.1cm} 0$  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 : (

C - Safety glasses, Gloves, Synthetic apron

#### 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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