

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 Substance name Sorbaldehyde CAS-No. 142-83-6 Product code : (US) W01703 Formula C6H80

Hexa-2,4-dienal, (E,E)- / trans,trans-2,4-Hexadienal / 2,4-Hexadienal, (2E,4E)- / 2,4-Hexadienal, Synonyms

(E,E)- / Sorbic aldehyde / Hexa-2(trans),4(trans)-dienal / (2E,4E)-Hexa-2,4-dienal / 2,4-

Hexadienal / (E,E)-2,4-Hexadienal

#### 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

#### 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

#### 2.1. Classification of the substance or mixture

#### GHS-US classification

Flammable liquids Category H227 Combustible liquid Acute toxicity (oral) H301 Toxic if swallowed Category 3

Acute toxicity (dermal) H311 Category 3

H314

Skin corrosion/irritation

Category 1B

Serious eye damage/eye H318

irritation Category 1

Carcinogenicity Category 2 H351 Skin sensitization, Category H317

Full text of H statements: see section 16

Toxic in contact with skin

Causes severe skin burns and eye damage

Causes serious eye damage

Suspected of causing cancer (Not classified)

May cause an allergic skin reaction

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)









Signal word (GHS-US) : Danger

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

> H301+H311 - Toxic if swallowed or in contact with skin H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H318 - Causes serious eve damage

H351 - Suspected of causing cancer (Not classified)

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

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smoking, heat, hot surfaces, open flames, sparks

P260 - Do not breathe fume, gas, mist, spray, vapors.

P261 - Avoid breathing fume, gas, mist, spray, vapors.

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

P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing must not be allowed out of the workplace

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

P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

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

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin

with water/shower

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

P308+P313 - If exposed or concerned: Get medical advice/attention.

P310 - Immediately call a doctor, a POISON CENTER P312 - Call a doctor, a POISON CENTER if you feel unwell

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

P330 - Rinse mouth.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P361 - Take off immediately all contaminated clothing.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use alcohol resistant foam, dry sand to extinguish.

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

# 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

#### Substances

Name	Product identifier	%	GHS-US classification
Sorbaldehyde (Main constituent)	(CAS-No.) 142-83-6	95 - 100	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Carc. 2, H351 Skin Sens. 1, H317

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

#### Mixtures

Not applicable

### SECTION 4: First-aid measures

#### Description of first aid measures

First-aid measures general : Call a physician immediately.

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

First-aid measures after skin contact Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a

physician immediately.

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

Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Call a physician immediately. Do not induce vomiting.

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

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

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

Treat symptomatically.

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# 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

Fire hazard : Combustible liquid.

Reactivity : 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 : No open flames, no sparks, and no smoking. Avoid contact with skin, eyes and clothing. Do not

breathe fume, gas, mist, spray, vapors.

#### 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. Notify authorities if product enters sewers or public

waters.

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 : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and

special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe fume, gas, mist, spray,

vapors

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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. Store locked up.

### 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

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#### 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 yellow liquid.

Color : Yellow

Odor : fatty sweet green odor aldehyde odor

Odor threshold No data available No data available рΗ Melting point Not applicable Freezing point No data available **Boiling** point 76 °C (at 30 mmHg) 154 °F (open cup) Flash point Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable. No data available Vapor pressure

Vapor pressure : No data available
Relative vapor density at 20 °C : No data available
Relative density : No data available
Specific gravity / density : 0.888 - 0.898 g/cm³
Solubility : No data available
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 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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

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#### 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

Sorbaldehyde (142-83-6)	
LD50 oral rat	300 mg/kg
LD50 dermal rabbit	270 μl/kg
ATE US (oral)	300 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer (Not classified).

Sorbaldehyde (142-83-6)		
IARC group	2B - Possibly carcinogenic to humans	
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity	
In OSHA Hazard Communication Carcinogen list	Yes	

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 : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

# SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

#### 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

 $Was te treatment \ methods \\ \hspace{2cm} : \ Dispose \ of \ contents/container \ in \ accordance \ with \ licensed \ collector's \ sorting \ instructions.$ 

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# SECTION 14: Transport information

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

In accordance with DOT

Transport document description : UN2922 Corrosive liquids, toxic, n.o.s., 8, III

UN-No.(DOT) : UN2922

Proper Shipping Name (DOT) : Corrosive liquids, toxic, n.o.s.

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : III - Minor Danger Hazard labels (DOT) 8 - Corrosive 6.1 - Poison



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

**DOT Symbols** : 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

T7 - 4 178.274(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. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

**DOT Vessel Stowage Location** 

: 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.

**DOT Vessel Stowage Other** : 40 - Stow "clear of living quarters" Other information : No supplementary information available.

**Transportation of Dangerous Goods** 

Transport by sea

: UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), III Transport document description (IMDG)

UN-No. (IMDG) : 2922

Proper Shipping Name (IMDG) : CORROSIVE LIQUID, TOXIC, N.O.S.

Class (IMDG) : 8 - Corrosive substances

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

Subsidiary risks (IMDG) : 6.1 - Toxic substances

Limited quantities (IMDG) : 5 L

Air transport

Transport document description (IATA) : UN 2922 Corrosive liquid, toxic, n.o.s., 8 (6.1), III

UN-No. (IATA) : 2922

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Proper Shipping Name (IATA) : Corrosive liquid, toxic, n.o.s.

Class (IATA) : 8 - Corrosives

Packing group (IATA) : III - Minor Danger

Subsidiary risks (IATA) : 6.1 - Toxic substances

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

#### Sorbaldehyde (142-83-6)

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

# 15.2. International regulations

#### **CANADA**

#### Sorbaldehyde (142-83-6)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

#### Sorbaldehyde (142-83-6)

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

#### **National regulations**

#### Sorbaldehyde (142-83-6)

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 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 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

#### Full text of H-phrases:

H227	Combustible liquid
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H351	Suspected of causing cancer

NFPA health hazard

: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard

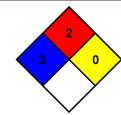
 $: \ 2 \text{-} \textit{Materials that must be moderately heated or exposed to} \\ \textit{relatively high ambient temperatures before ignition can}$ 

occur.

NFPA reactivity

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

under fire conditions.



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**Hazard Rating** 

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient

temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but

below 200 F. (Classes II & IIIA)

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 :

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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