

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 3(2H)-Furanone, 4-hydroxy-5-methyl-

CAS-No. : 19322-27-1 Product code : (US) W04321 Formula : C5H6O3

: 4-Hydroxy-5-methyl-3(2H)-furanone / 4-Hydroxy-5-methylfuran-3(2H)-one Synonyms

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

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

GHS Label elements, including precautionary statements

GHS-US labeling

No labeling applicable

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
3(2H)-Furanone, 4-hydroxy-5-methyl- (Main constituent)	(CAS-No.) 19322-27-1	96 - 100	Not classified

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

First-aid measures after skin contact Wash skin with plenty of water. First-aid measures after eye contact : Rinse eyes with water as a precaution.

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

Most important symptoms and effects (acute and delayed)

No additional information available

Immediate medical attention and special treatment, if necessary

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.

5.2. Specific hazards arising from the chemical

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 : Ventilate spillage area.

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 : Mechanically recover the product.

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. Wear personal protective equipment.

Hygiene measures : 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

 $Appropriate\ engineering\ controls \\ \hspace{2cm} :\ Ensure\ good\ ventilation\ of\ the\ work\ station.$

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:

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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 : Solid

Appearance : A pale yellow to amber solid.

Color : pale yellow to amber

Odor : Fruity jam flavor caramel-like bread-like aroma

Odor threshold : No data available рΗ No data available Melting point No data available Not applicable Freezing point 215 - 217 °C Boiling point Flash point Not applicable Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) : Non flammable. Vapor pressure No data available Relative vapor density at 20 °C No data available Relative density Not applicable : 1.38 - 1.4 g/cm³ Specific gravity / density Solubility No data available : No data available Log Pow Auto-ignition temperature Not applicable Decomposition temperature No data available Viscosity, kinematic Not applicable Viscosity, dynamic No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Explosion limits

Explosive properties

Oxidizing properties

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.

Not applicable

No data available

: No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified
Skin corrosion/irritation : Not classified

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Serious eye damage/irritation : Not classified 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

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.

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

3(2H)-Furanone, 4-hydroxy-5-methyl- (19322-27-1)

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

15.2. International regulations

CANADA

3(2H)-Furanone, 4-hydroxy-5-methyl- (19322-27-1)

Listed on the Canadian DSL (Domestic Substances List)

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EU-Regulations

3(2H)-Furanone, 4-hydroxy-5-methyl- (19322-27-1)

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

National regulations

3(2H)-Furanone, 4-hydroxy-5-methyl- (19322-27-1)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

No additional information available

SECTION 16: Other information

NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

: 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

Health : 0 Minimal Hazard - No significant risk to health
Flammability : 0 Minimal Hazard - Materials that will not burn

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

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NFPA fire hazard

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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