

HEALTH 2 2 **FLAMMABILITY** REACTIVITY N

#### PRODUCT AND COMPANY IDENTIFICATION Section 1:

**Product identifiers** 1.1

> Product Name Strawberry Furanone 10% in ETOH, Synthetic

**Product Number** 

CAS-No. 3658-77-3 / 64-17-5

1.2 Product Recommended Use

1.3 Preparation Information

Aurochemicals Company

7 Nicoll Street

**Flavorings** 

Washingtonville, NY 10992

845-496-6065 Telephone Fax 845-496-6248

**Emergency Telephone Number** 1-800-535-5053

International - 1-352-323-3500 collect

#### Section 2: HAZARD(s) IDENTIFICATION

2.1 Classification of substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319

## **GHS Label Elements, Including precautionary statements**

Pictogram

Danger

Signal Statement Hazard Statement(s)

H225 Highly flammable liquid and vapor

H315 Cause skin irritation

H319 Causes serious eye irritation

Precautionary P210 Keep away from heat/sparks/open flames/hot surfaces-No Smoking

Statement(s) P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash skin thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P302+P352 IF ON SKIN: Wash with plenty of soap and water

305+P351+P338 IF IN EYES: Rinse cautiously with water to several minutes. Remove contact lenses if

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present and easy to do. Continue rinsing.

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+P235 Keep container tightly closed

P241 Use explosion-proof electrical/ventilating/lighting/equipment

P242 Use only non sparking tools

P243 Take precautions measures against static discharge

P403+P235 Store in a well ventilated place. Keep cool

P501 Dispose of contents/container to an approved waste disposal plant

2.3 HNOC (Hazards not otherwise classified or not covered by GHS -None

#### Section 3: **COMPOSITION / INFORMATION ON INGREDIENTS**

3.1 Substances

> Svnonvms 4-Hydroxy-2,5-Dimethyl-3(2H)-Furanone mixture

Formula Blend (Mixture) Molecular Weight No data available 3658-77-3/64-17-5 CAS-No EC-No. 222-908-8/200-578-6

**Hazardous Components** 

Component	Classification	Concentration
4-Hydroxy-2,5-dimethyl-3(2H)-furanone	Acute Toxicity, Oral (Category 4) H302	10%
Ethanol	Flammable liquids (Category 2), H225	90%

#### Section 4: FIRST AID MEASURES

Description of first aid measures 4.1

> General advice Consult physician. Show this safety data sheet to the doctor in attendance. Move out of

dangerous area

Inhalation If headache, irritation, nausea or drowsiness occurs, provide fresh air; keep at rest and

at a comfortable position to breathe. Consult a physician

Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and Contact with skin:

warm water and if irritation or other symptoms occur, contact a physician.

Rinse thoroughly with plenty of water for at least 15 as a precaution, remove contacts if Contact with eyes:

present and easy to do and consult a physician.

Ingestion DO NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a POISON CONTROL CENTR or physician.

Clothing contamination: Remove contaminated clothing and wash before reuse.

4.2 Most important symptoms and effects

both acute and delayed

Indication of any immediate medical attention and special treatment needed See section 2.2 and or section 11

No data available

#### Section 5: FIREFIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the Highly flammable. Vapors heavier than air. Forms explosive mixtures with air at ambient substance or mixture temperatures. Development of hazardous combustion gases or vapors possible in the

event of fire: Carbon oxides

Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes Advice for fire fighters 5.3

under fire conditions. Combustible liquid, avoid heat, sparks and open flames.

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5.4 Further information

Use water spray to cool unopened containers. Prevent contact with skin and eyes.

### Section 6: ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe area. Beware of vapors accumulating to form explosive concentrations. **Vapors can** 

accumulate in low areas.

6.2 Environment precautions

Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or

sewage system.

6.3 Methods and materials for containment

and clean up Specific end use(s)

6.4

Contain spillage. Soak up with absorbent material. Sweep up with broom and shovel.

Place in a suitable, closed container for disposal.

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

## Section 7: HANDLING AND STORAGE

7.1 **Precautions for safe handling** Avoid contact with skin and eyes. Avoid Inhalation of vapor or mist. Avoid prolonged or

repeated exposure. Use explosion proof equipment. Keep away from sources of ignition – No smoking. Take measures to prevent the buildup of electrostatic charge. When using do not eat or drink. Wash hands thoroughly after handling. Normal measures for

preventive fire protection.

7.2 Conditions for Safe storage Keep container tightly closed in a dry, cool and well-ventilated place. Containers which

are opened must be carefully resealed and kept upright to prevent leakage.

Hydroscopic

7.3 Specific End use(s) Flavorings

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Components with workplace control parameters

To the state of th						
Components	CAS-No.	Value	Control Parameters	Basis		
Ethanol	64-17-5	TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)		
	Remarks	Upper Res	piratory Tract irritation. Cor	nfirmed animal carcinogen with unknown relevance to		
		humans				
		TWA	1,000 ppm	USA. Occupational Exposure Limits (OSHA) – Table		
			1,900 mg/m3	Z-1 Limits for Air Contaminants		
		The value in mg/m3 is approximate				
			1,000 ppm	USA. NIOSH Recommended Exposure Limits		
			1,900 mg/m3			

# 8.2 Exposure Controls:

Appropriate Engineering Controls

Avoid contact with skin, eyes and clothing. Use under appropriate exhaust ventilation when handling this product. Handle in accordance with good industrial hygiene and safety practices. Wash hands immediately after handling the product; before breaks and at the end of the day. Safety shower and eye wash stations available near processing / storage areas.

Personal protective equipment

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.

Eye/face protection Wear appropriate safety glasses with side shields. Use equipment for eye protection

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tested and approved under appropriate government standards such as NIOSH (US) or

EN 166 (EU).

Skin protection Wear chemically resistant, rubber gloves, when handling this product.. Use proper glove

removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.

Body protection Impervious clothing protecting against chemicals, should be selected specifically for the

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work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained

with the respective supplier.

Respiratory protection Where risk assessment shows air purifying respirators are appropriate use a full face

respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a back up to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate governmental standards such as NIOSH (US) or CEN

(EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a Appearance Liquid

b Odor Strawberry
c Odor Threshold No data available
d pH No data available

d pH No data available e Melting Point /Freezing Point No data available

f Boiling Point 187°C

Flash Point 107°C closed cup g **Evaporation Rate** No data available h Flammability (Solid, Gas) No data available Upper/lower Flammability Limit No data available k Vapor pressure No data available Vapor density No data available Relative density at 25°C 0.906-0.916 m

n Solubility Soluble in water and organic solvents

Partition coefficient: n-octanol/water No data available 0 No data available Auto-ignition Temp. р Decomposition Temp. No data available q Viscosity No data available r Explosive properties No data available Oxidizing properties No data available

**9.2 Other Safety Information** No data available

# Section 10: STABILITY AND REACTIVITY

10.1 Reactivity No data available

**10.2 Chemical Stability** Stable under recommended storage conditions

10.3 Possibility of Hazardous reactions No data available

**10.4** Conditions to avoid Excessive heat, open flames or other sources of ignition

**10.5** Incompatible materials Strong acids, alkalies, and or oxidizing agents

10.6 Hazardous decomposition products Carbon monoxide, carbon dioxide

**10.7 Further Information** No data available



### Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

This product is a mixture and has not been tested for health hazards. The health hazard information presented below is provided in accordance with 29CFR 1910.1200 and is based on the testing of individual component which have been shown to cause the following health effects when tested at higher concentrations or at full strength.

**Acute Toxicity** 

LD50-Oral No data available
LC50-Inhalation No data available
LD50-Dermal No data available
Skin corrosion/irritation No data available
Serious eye damage/eye irritation No data available
Respiratory or skin sensitization No data available
Germ Cell mutagenicity No data available

Further Toxicological Information May be harmful if inhaled, swallowed or if absorbed through the skin

Carcinogenicity

IARC No component of this product, present levels greater than or equal to 0.1% is identified

as probable, possible or confirmed human carcinogen by IARC.

ACGIH No component of this product, present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by ACGIH.

No component of this product, present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA No component of this product, present at levels greater than or equal to 0.1% is

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identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity No data available

Specific target organ toxicity-single No data available

exposure (GHS)

Specific target organ toxicity-repeated

exposures (GHS)

Aspiration Hazards No data available

Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have

not been thoroughly investigated

No data available

Synergistic effect No data available RTECS: Not available

### Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity
 12.2 Persistence and degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No data available
 No data available
 No data available

12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required / not

conducted

**12.6** Other adverse effects Do not allow to enter water, drain or soil



## Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Product: According to local regulations
Packaging According to local regulations

### Section 14: TRANSPORT INFORMATION

DOT (US) UN-Number: 11707 Class: 3 Packing Group: II

Proper shipping name: Flammable liquid, Ethanol Solution n.o.s.

Marine Pollutant: No Poison Inhalation Hazard: No

IMDG UN-Number: 1170 Class: 3 Packing Group: II Proper shipping name: FLAMMABLE LIQUID, Ethanol Solution N.O.S.

Marine Pollutant:

IATA UN-Number: 1197 Class: 3 Packing Group: II

Proper shipping name: Flammable liquid, Ethanol Solution n.o.s.

#### Section 15: REGULATORY INFORMATION

Reach No. A registration number is not available for this substance as its uses are exempted from

registration, the annual tonnage nod not require a registration or the registration is

envisaged for a later registration deadline.

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III,

Section 302

SARA 313 Components This material does not contain any chemical components with known CAS numbers that

exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section

313.

SARA 311/312 Hazards Fire Hazards, Chronic Health Hazard

Massachusetts Right to Know Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007

components

Pennsylvania Right to Know components 4-Hydroxy-2,5-dimethylfuran-2(3H)-one CAS# 3658-77-3 Rev Date:

Ethanol CAS# 64-17-5 Rev. Date: 31/2007

New Jersey Right to Know components 4-Hydroxy-2,5-dimethylfuran-2(3H)-one CAS# 3658-77-3 Rev Date:

Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007

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California Prop. 65 components

This product does not contain any chemicals known to State of California to cause

cancer, birth defects, or any other reproductive harm.

# Section 16: OTHER INFORMATION

**HMIS Rating** 

Health hazard 2

Chronic Health Hazard

Flammability 2

Physical Hazard 0

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# **Safety Data Sheet**



### **Further Information**

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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