

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Soy Furanone, Natural
Product Number	0362300
CAS-No.	27538-09-6

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA
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Telephone	845-496-6065
Fax	845-496-6248

1.4 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 4) H227 Acute Toxicity, Oral (Category 4) H302 Skin corrosion/irritation (Category 2) Serious eye damage/eye irritation (Category 2A)
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2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement	Warning
Hazard Statement(s)	H227 Combustible liquid H302 Harmful if swallowed
Precautionary Statement(s)	P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking P264 Wash skin thoroughly after handling P270 Do not eat, drink or smoke when handling this product P280 Wear protective gloves, clothing, eye and face protection P301+P312 IF SWALLOWED: Call POISON CENTER or doctor/physician if you feel unwell P330 Rinse mouth P370+P378 In case of fire: use dry sand, dry chemical or alcohol resistant foam for extinction

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

Synonym 2-Ethyl-4-hydroxy-5-methyl-3-(2H) furanone

Formula $C_7H_{10}O_3$

Molecular Weight 142.15 g/mol

CAS-No 27538-09-6

EC-No. 248-513-0

Hazardous Components

Component	Classification	Concentration
2-Ethyl-4-hydroxy-5-methyl-3-(2H) furanone	Flammable Liquid (4) H227 Acute Toxicity (4) H302	<=100%

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation Provide fresh air; keep at rest and at a comfortable position to breathe

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

Contact with eyes: Flush eyes with water as a precaution, consult physician.

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

Clothing contamination: Remove contaminated clothing and wash before reuse.

4.2 Most important symptoms and effects both acute and delayed See section 2.2 and or section 11

4.3 Indication of any immediate medical attention and special treatment needed. No data available

Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media

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

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|-----|--|---|
| 5.2 | Special hazards arising from the substance or mixture | Carbon Oxides |
| 5.3 | Advice for fire fighters | Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions. |
| 5.4 | Further information | Use water spray to cool unopened containers |

Section 6: ACCIDENTAL RELEASE MEASURES

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|-----|--|---|
| 6.1 | Personal precautions, protective equipment and emergency procedures | Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. |
| 6.2 | Environment precautions | Do not allow to enter drains or sewage system. |
| 6.3 | Methods and materials for containment and clean up | Contain spillage and collect with wet brushing and place in a container for disposal. Keep in suitable, closed containers for disposal |
| 6.4 | Specific end use(s) | Apart from the uses mentioned in section 1.2, no other specific uses are stipulated. |

Section 7: HANDLING AND STORAGE

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|-----|--------------------------------------|--|
| 7.1 | Precautions for safe handling | Emergency Eyewash Station and Safety Shower as well as adequate general or local explosion proof ventilation (keeping airborne level to acceptable levels) should be in place. Avoid contact with skin and eyes. Avoid inhalation of vapors or mist. Keep away from sources of ignition. No smoking. Take measures to prevent the buildup of electrostatic charge. |
| 7.2 | Conditions for Safe storage | Keep container tightly closed in a dry, cool and well-ventilated place. Containers which have been opened must be carefully resealed and kept upright to prevent leakage. Store under inert gas. |
| 7.3 | Specific End use(s) | Flavorings |

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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|-----|---------------------------|---|
| 8.1 | Control parameters | Components with workplace control parameters – Contains no substance with occupational exposure limit values. |
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- | | | |
|-----|----------------------------------|---|
| 8.2 | Exposure Controls | |
| | Appropriate Engineering Controls | Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday. |

Personal protective equipment

These recommendations are advisory only and must be evaluated by an industrial

hygienist and safety officer familiar with the specific situations of anticipated use by our customers. They should not be construed as offering an approval or any specific use scenario.

Eye/face protection	Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin protection	Wear chemically resistant gloves. 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	Complete suit protecting against chemicals should be selected specifically for the 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 government standards such as NIOSH (US) or CEN (EU). USE NIOSH/MSHA or EU Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Control of environmental exposure	Do not let product enter drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a Appearance	Colorless to pale yellow or green liquid
b Odor	Berry, wine
c Odor Threshold	No data available
d pH	No data available
e Melting Point /Freezing Point	31 – 35°C
f Boiling Point	~248°C
g Flash Point	~65°C closed cup
h Evaporation Rate	No data available
i Flammability (Solid, Gas)	No data available
j Upper/lower Flammability Limit	No data available
k Vapor pressure	No data available

l	Vapor density	No data available
m	Relative density @25°C	1.126 – 1.150 g/cm ³
n	Solubility	Insoluble in water, Soluble in most organic solvents
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	No data available
q	Decomposition Temp,	No data available
r	Viscosity	No data available
s	Explosive properties	No data available
t	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	Vapors may form explosive mixture with air
10.4	Conditions to avoid	Heat, flame and sparks
10.5	Incompatible materials	Strong oxidizing agents
10.6	Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides
10.7	Further Information	No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
	Acute Toxicity	
	LC50-Oral – Mouse	1,932 mg/kg
	Inhalation	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

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.
- NTP 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 identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity-single exposure (GHS)

No data available

Specific target organ toxicity-repeated exposures (GHS)

No data available

Aspiration Hazards

No data available

Signs and Symptoms of Exposure

No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Synergistic effects

No data available

RTECS:

Not available

Section 12: ECOLOGICAL INFORMATION

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

Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

- Product: According to local regulations
- Packaging: According to local regulations

Section 14: TRANSPORT INFORMATION

- DOT (US) NA1993 Class None Packing Group III
- Proper Shipping Name: Combustible liquid, n.o.s. (2-Ethyl-4-hydroxy-5-methyl-3(2H)furanone)
- Reportable Qty: No
- Marine Pollutant No

Safety Data Sheet

Poison Inhalation Hazard	No
IMDG	Not dangerous goods
IATA	Not dangerous goods

Section 15: REGULATORY INFORMATION

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 Hazard, Acute Health Hazard		
Massachusetts Right to Know Components	No components are subject to the Massachusetts Right to Know Act.		
Pennsylvania Right To Know Components	2-Ethyl-4-hydroxy-5-methyl-3-(2H)furanone	CAS No. 27538-09-6	Rev. Date:
New Jersey Right to Know Components	2-Ethyl-4-hydroxy-5-methyl-3-(2H)furanone	CAS No. 27538-09-6	Rev. Date:
California Prop. 65 components	This product does not contain any chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm.		

Section 16: OTHER INFORMATION

HMIS Rating

Health hazard	1
Chronic Health Hazard*	
Flammability	2
Physical Hazard	0

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.

Issued by:	Contact Person:
Aurochemicals	Deo N. Persaud
7 Nicoll Street	11/21/2022
Washingtonville, NY 10992 USA	

Safety Data Sheet



The Natural Choice for Flavor
and Fragrance Ingredients

Aurochemicals