

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Caramel Furanone (Fenugreek Lactone) 3% in Triacetin, Natural
Product Number	0363403
CAS-No.	28664-35-9 / 102-76-1

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)	Acute toxicity, Oral (Category 4) Skin irritation (Category 2) Skin sensitization (Category 4)
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2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Word

Warning

Hazard Statement(s)

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction

Precautionary Statement(s)

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.

P302+P352
P332+P313
P362
P403 +P233
P501

IF ON SKIN (or hair): Rinse with soap and water/ shower.
If skin irritation occurs: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
Store in a well-ventilated place. Keep container tightly closed.
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 4,6-Dimethyl-3-hydroxy-2,5-dihydrofuran-2-one/Triacetin Mixture
Formula $C_6H_8O_3$
Molecular Weight 128.13 g/mol
CAS-No 28664-35-9/102-76-1

Hazardous Components

Component	Classification	Concentration
Triacetin	Acut Tox.; Skin Irrit.; Skin sens.; H302; H315; H317	~ 97 %

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.

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

5.2 Special hazards arising from the

Nature of decomposition products not known

substance or mixture

- 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** No data available

Section 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Avoid breathing vapors, mist or gas
- 6.2 Environment precautions** Do not allow to enter drains or sewage system.
- 6.3 Methods and materials for containment and clean up** Soak up with inert absorbent material and dispose of as hazardous waste. 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

- 7.1 Precautions for safe 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 have been opened must be carefully resealed and kept upright to prevent leakage.
- 7.3 Specific End use(s)** Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
Contains no substances with occupational exposure limit values
- 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 faced respirator with multi -purpose combination (US) or type ABEK (EN14387) respirator cartridges as a backup 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)

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	Liquid-oily Colorless to pale yellow
b	Odor	Slight Fat Odor
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	3°C
f	Boiling Point	258-259 °C
g	Flash Point	138°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper Explosion Limit: 7.73% (V) Lower Explosion Limit: 1.05% (V)
k	Vapor pressure	0.0033hPa at 25°C
l	Vapor density	7.53 (Air=1.0)
m	Relative density @25°C	1.154-1.158
n	Solubility	Soluble in alcohol, ether and organic solvents
o	Partition coefficient: n-octanol/water	log Pow: 0.25
p	Auto-ignition Temp.	433°C
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	No dangerous reactions known
10.4	Conditions to avoid	No data available
10.5	Incompatible materials	Strong oxidizing agents
10.6	Hazardous decomposition products	No data available
10.7	Further Information	No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LC50-Oral –Rat (male & female) >2,000 mg/kg
OECD Test Guideline 401

LC50 Inhalation-Rat (male & female) >1,721 mg/l 4h
OECD Test Guideline 403

LD50-Dermal-Rabbit >2,000 mg/kg

Skin corrosion/irritation Rabbit: No skin irritation – 24 hr
OECD Test Guideline 404

Serious eye damage/eye irritation Rabbit: No eye irritation
OECD Test Guideline 405

Respiratory or skin sensitization No sensitizing effects known

Germ Cell mutagenicity Ames Test
S. Typhimurium
Results: Negative

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.

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

Synergistic effects No data available

RTECS: AK3675000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

To Fish: LC50- Semi-Static Test: Oryzias latipes >100 mg/l 96hr
OECD Test Guideline 203

To Daphnia and other aquatic invertebrates

EC-50-Semi-Static Test: Daphnia magna (water flea) 380mg/l 48hr

To Algae: EC50- Selenastrum capricornutum (green algae) >940 mg/l 72 hr

To Bacteria: NOEC- Pseudomonas putida >1,088 mg/l 18hr

12.2 Persistence and degradability	Biodegradability:
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)	Not a dangerous goods
IMDG	Not a dangerous goods
IATA	Not a 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	No SARA Hazards		
Massachusetts Right to Know components	No components are subject to the Massachusetts Right to Know Act		
Pennsylvania Right to Know components	Triacetin	CAS# 102-76-1	Rev. Date:
New Jersey Right to Know components	Triacetin	CAS# 102-76-1	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	1
Physical Hazard	0

Further Information

Safety Data Sheet

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	Revised Date: 8/8/2022
Washingtonville, NY 10992 USA	

Aurochemicals