



HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers Product Name Product Number CAS-No.	Caramel Furanone (Fenugreek Lactone) 1% in Triacetin, Natural 0363401 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
	Telephone Fax	845-496-6065 845-496-6248
1.4	Emergency Telephone Number	1-800-535-5053 International - 1-352-323-3500 collect
Sect	tion 2: HAZARD(s) IDENTIFICATI	ON
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)
2.2	GHS Label Elements, Including precaution Pictogram	
	Hazard Statement(s) H302 H315 H317	Harmful if swallowed Causes skin irritation May cause an allergic skin reaction
	Precautionary Statement(s) P264 P270 P280 P301+P312 P330	Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

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2.3	HNOC (Hazards not otherwise	None
	P501	Dispose of contents/ container to an approved waste disposal plant.
	P403 +P233	Store in a well-ventilated place. Keep container tightly closed.
	P362	Take off contaminated clothing and wash before reuse.
	P332+P313	If skin irritation occurs: Get medical advice/ attention.
	P302+P352	IF ON SKIN (or hair): Rinse with soap and water/ shower.

HNOC (Hazards not otherwise classified or not covered by GHS

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1	Substances Synonym Formula Molecular Weight CAS-No Hazardous Components	4,6-Dimethyl-3-hydroxy-2,5-dihydrofura C₀H₀O₃ 128.13 g/mol 28664-35-9/102-76-1	n-2-one/Triacetin Mixture
	Component	Classification	Concentration
	Triacetin	Acut Tox.; Skin Irrit.; Skin sens.; H302; H315; H317	~ 99 %

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 Contact with skin:	Provide fresh air; keep at rest and at a comfortable position to breathe 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

0.1	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

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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.

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

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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

а Appearance Liquid-oilv Colorless to pale yellow Odor Slight Fat Odor b Odor Threshold No data available С d pН No data available Melting Point /Freezing Point 3°C е 258-259 °C **Boiling Point** f 138°C closed cup Flash Point g **Evaporation Rate** No data available h Flammability (Solid, Gas) No data available i Upper/lower Flammability Limit Upper Explosion Limit: 7.73% (V) i Lower Explosion Limit: 1.05% (V) Vapor pressure k 0.0033hPa at 25°C Т Vapor density 7.53 (Air=1.0) m Relative density @25°C 1.154-1.158 Solubility Soluble in alcohol, ether and organic solvents n Partition coefficient: n-octanol/water log Pow: 0.25 0 Auto-ignition Temp. 433°C р Decomposition Temp, No data available q No data available Viscosity r Explosive properties No data available s Oxidizing properties No data available t **Other Safety Information** 9.2 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

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Secti	on 11: TOXICOLOGICAL INFORM	IATION
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 Germ Cell mutagenicity	No sensitizing effects known Ames Test
		S. Typhimurium Results: Negative
	Carcinogenicity	
		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
Secti	on 12: ECOLOGICAL INFORMAT	ION
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

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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 assessmen	t PBT/vPvB assessment not available as chemical safety assessment not required / not
		conducted
12.6	Other adverse effects	No data available
Secti	ion 13: DISPOSAL CONSIDERA	ATIONS
13.1	Disposal methods	
	Product:	According to local regulations
	Packaging	According to local regulations
Secti	ion 14: TRANSPORT INFORM	ATION
	DOT (US)	Not a dangerous goods
	IMDG	Not a dangerous goods
	IATA	Not a dangerous goods
0		
Sect	ion 15: REGULATORY INFORM	IATION
	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
	or a viere componenta	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	No components are subject to the Massachusetts Right to Know Act
	components	
	Pennsylvania Right to Know component	ts 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.
0		
Sect	ion 16: OTHER INFORMATION	

Section 16:

HMIS Rating Health hazard 1 Chronic Health Hazard Flammability 1 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.

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