

HEALTH	0
FLAMMABILITY	0
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name: **Caramel Furanone (Fenugreek Lactone), Natural**
 Product Number: **0363400**
 CAS No.: **28664-35-9**

Recommended Use: Flavorings

Manufacturer: Aurochemicals
 7 Nicoll Street
 Washingtonville, NY 10992 – USA
 845-496-6065
 845-4996-6248 Fax

Emergency Telephone No.: 1-800-535-5053
 (International 1-352-323-3500 collect)

Section 2: HAZARD(s) IDENTIFICATION

OSHA Hazards No known OSHA hazards

Other hazards which do not result in classification Stench
 Not a dangerous substance according to GHS

Potential Health Effects
 Inhalation May be harmful if inhaled. May Cause respiratory tract irritation
 Skin May be harmful if absorbed through skin. May cause skin irritation
 Eyes May cause eye irritation
 Ingestion May be harmful if swallowed

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component 4,6-Dimethyl-3-hydroxy-2,5-dihydrofuran-2-one
 Chemical Name 4,6-Dimethyl-3-hydroxy-2,5-dihydrofuran-2-one
 Common Name: Fenugreek Lactone
 Synonyms: Caramel furanone, Sotolon, Sugar Lactone
 CAS # 28664-35-9
 EC#
 Molecular Weight 128.13 g/mol
 Molecular Formula C₆H₈O₃
 No ingredients are hazardous according to OSHA Criteria

Section 4: FIRST AID MEASURES

General Advise:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes as a precaution.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with plenty of mild soap and warm water. Consult a physician .
Inhalation:	Provide fresh air, Consult a physician.
Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.
Clothing contamination:	Wash contaminated clothing before re-use.

Section 5: FIREFIGHTING MEASURES

Conditions of Flammability	Not flammable or combustible.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for firefighters	Wear self contained breathing apparatus for firefighting if necessary.
Other Information	Hazardous decomposition products formed under fire conditions – Carbon oxides.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental-protected measures	Prevent further leakage or spillage if safe to do so. Do not let product enter drains, sewers or ground water.
Procedures for cleaning / absorption	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Ventilate area	After sweep up, wash area and ventilate area well.

Section 7: HANDLING AND STORAGE

Precautions for safe handling	Provide appropriate exhaust ventilation at places where dust if formed. Avoid breathing dust.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Contains no substances with occupational exposure limit values.
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.
Body Protection:	Clothing 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:	Respiratory protection is not required. Where protection from nuisance levels of dusts are desired. Use NIOSH approved type N95 dust masks.
Eye Protection:	Wear appropriate eye protection, tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Hand Protection:	Wear chemically resistant Nitrile rubber gloves and use proper glove removal techniques to avoid coming in contact with product. Wash and dry hands after handling this product.
Industrial Hygiene:	Avoid contact with skin, eyes, and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. Wash hands after working with product

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow to tan liquid
Odor:	Caramel, maple
Boiling Point:	81°C
Flashpoint:	>100°C
Melting Point	26-29°C
Ignition temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure:	No data available
Specific Gravity @ 25°C:	1.179-1.189
Solubility	Fully miscible

Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous reactions	No data available
Conditions to avoid	No data available
Materials to avoid	Bases, Oxidizing agents, Reducing agents, Strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions-Carbon oxides.

Section 11: TOXICOLOGICAL INFORMATION

LD50, Oral	No data available
LC50 Inhalation	No data available
LD50 Dermal	No data available
Further toxicological information	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 at 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 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
Specific target organ toxicity-Single Exposure (GHS)	No data available
Specific target organ toxicity-Repeated Exposure (GHS)	No data available
Aspiration hazard	No data available

Potential health effects	Inhalation	May be harmful if inhaled. May cause respiratory tract irritation
	Ingestion	May be harmful if swallowed
	Skin	May be harmful if absorbed through skin. May cause skin irritation
	Eyes	May cause eye irritation

Signs and symptoms of Exposure	Gastrointestinal disturbance, Nausea, Headache, Vomiting, Central nervous system depression. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
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Synergistic effects	No data available
RTECS	Not available

Section 12: ECOLOGICAL INFORMATION

Toxicity	No data available
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Section 13: DISPOSAL CONSIDERATIONS

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

OSHA Hazards	No known OSHA hazards
SARA 302	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	No components are subject to the Massachusetts Right to Know Act
New Jersey Right to Know Components	No components are subject to the Massachusetts Right to Know Act
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

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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