

Safety Data Sheet

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name: **Caramel Furanone (Fenugreek Lactone) 1% in PG, Natural**
 Product Number: **0363401**
 CAS No.: **28664-35-9 / 57-55-6**

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	Not a dangerous substance according to GHS

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	Mixture of the substances listed below with non-hazardous additions
Chemical Name	4,6-Dimethyl-3-hydroxy-2,5-dihydrofuran-2-one/1,2-Propanediol Mixture
Common Name:	Fenugreek Lactone + PG
Synonyms:	Caramel furanone, Sotolon, Sugar Lactone +PG
CAS #	28664-35-9/57-55-6
EC#	

Hazardous Components

Components	Classification	Concentration
Propane-1,2-diol	-	99%

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.

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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	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide
Special hazards arising from the substance or mixture	No data available
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 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	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
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

Components with workplace control parameters

Component	CAS –No.	Value	Control Parameters	Basis
Propane-1,2-diol	57-55-6	10 mg.m ³	TWA	USA Workplace Environmental Exposure Levels (WEEL)

Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the day.
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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:

Where risk assessment shows air-purifying respirators are appropriate, use full face respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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).

Eye Protection:

Wear appropriate eye protection, safety glasses with side shields, tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hand Protection:

Wear chemically resistant Nitrile rubber gloves selected for the product and its use. 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:	Tan to brown Liquid
Odor:	Caramel, maple
Boiling Point:	187°C
Flashpoint:	107°C Closed Cup
Melting Point	-68°C
Ignition temperature	No data available
Lower Explosion Limit	2.6 % (V)
Upper Explosion Limit	12.6 % (V)
Vapor Pressure:	0.11 hPa
Specific Gravity @ 25°C:	1.035-1.045
Solubility	Fully miscible
Solvent Content:	Organic Solvents: 99.9%
	VOC Content: 99.9%

Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous reactions	No dangerous reactions known
Conditions to avoid	No data available
Materials to avoid	Strong acids, alkalis, oxidizing agents

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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 irritant effect
Serious eye damage / eye irritation	No irritating effect
Respiratory or skin sensitization	No sensitizing effects known
Germ cell mutagenicity	No data available

This product is a mixture and has not been tested for health hazards. The health hazard information provided here is in accordance with 29 CFR 1910.1200 and is based on the testing of individual components which have been shown to cause the above health effects when tested at higher concentrations or at full strength. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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

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	Not available

Section 12: ECOLOGICAL INFORMATION

Toxicity	No data available
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Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

DOT (US)	Not Regulated
IMDG	Not Regulated
IATA	Not Regulated

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	Propane-1,2-diol CAS # 57-55-6 Rev. Date: 8/11/1989
New Jersey Right to Know Components	Propane-1,2-diol CAS # 57-55-6 Rev. Date: 8/11/1989
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.

Issued by:	Contact Person:
Aurochemicals	Deo N. Persaud
7 Nicoll Street	Revised Date: 8/8/2022
Washingtonville, NY 10992 USA	