

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Maple Furanone 1% ETOH, Natural
Product Number	0315300
CAS-No.	698-10-2/64-17-5

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 Liquid (Category 2), H225

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Word **Danger**

Hazard Statement(s)	H225	Highly Flammable liquid and vapor
Precautionary Statement(s)	P210	Keep away from heat/sparks/open flames/hot surfaces - No smoking
	P233	Keep container tightly closed
	P240	Ground/bond container and receiving equipment
	P241	Use explosion proof electrical/ventilating/lighting/equipment
	P242	Use only non-sparking tools
	P243	Take precautionary measures against static discharge
	P280	Wear protective gloves/clothing/eye and face protection
	P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
	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 Ethyl Alcohol Solution (Maple Furanone in EtOH)

Formula

Molecular Weight

CAS-No

698-10-2-64/64-17-5

Hazardous Components

Components	Classification	Concentration
Ethanol	Flammable Liquid (2) H225	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

Provide fresh air; keep at rest and at a comfortable position to breathe. Consult physician.

Contact with skin:

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

Contact with eyes:

Rinse opened eye for several minutes under running water

Ingestion

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

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 substance or mixture

Nature of decomposition products not known

5.3 Advice for fire fighters

Wear self contained breathing apparatus for firefighting if necessary.

5.4 Further information

Cool endangered receptacles with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. 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

- 6.2 **Environment precautions** accumulate in low areas.
Do not allow to enter drains or sewage system. Collect contaminated fire fighting water separately.
- 6.3 **Methods and materials for containment and clean up** Keep collected spillage in suitable, closed containers for disposal. Ensure adequate ventilation.
- 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** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection. Use explosion proof equipment. 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.
Keep away from extremes of temperature and direct sunlight
- 7.3 **Specific End use(s)** **Hydroscopic**
Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control Parameters	Basis
Ethanol	64-17-5	TWA	1,000 ppm	USA ACGIH Threshold Limit Values (TLV)
Remarks: Upper respiratory tract irritation				
Confirmed animal carcinogen with unknown relevance to humans				
		TWA	1,000 ppm 1,900 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
The value in mg/m ³ is approximate				
		TWA	1,000 ppm 1,900 mg/m ³	USA. NIOSH Recommended Exposure Limits

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 with side shields. 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 rubber gloves appropriate for product and application. 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 Impervious 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).

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	Clear, pale yellow liquid
b	Odor	Alcoholic, Maple
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	No data available
f	Boiling Point	78°C
g	Flash Point	16.6°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper Limit: 3.3 Vol % Lower Limit: 19 Vol %
k	Vapor pressure @ 20°C	59.5 hPa
l	Vapor density	No data available
m	Relative density @25°C	0.800-0.825
n	Solubility	Soluble in water; soluble in most organic solvents
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	363.0°C
q	Decomposition Temp,	No data available
r	Viscosity	No data available
s	Explosive properties	No data available
t	Solvent content	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, flames and sparks. Extremes of temperature and direct sunlight
10.5 Incompatible materials	Alkali metals, Ammonia, Oxidizing Agents, Peroxides
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

LD50-Inhalation - Rat

7,060 mg/kg

Remarks: Lungs, Thorax or Respiratory changes

LD50-Oral - Rat

7,060 mg/kg

LD50-Dermal

No data available

Skin corrosion/irritation

Rabbit - No skin irritation -24 hr
(OECD Test Guideline 404)

Serious eye damage/eye irritation

Rabbit: Mild eye irritation
(OECD Test Guideline 405)

Respiratory or skin sensitization

No sensitizing effects known

Germ Cell mutagenicity

No data available

Carcinogenicity

Carcinogenicity - Mouse -Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria: Liver tumors; Blood: Lymphomas including Hodgkin's disease.

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

Human - Female- Oral

Effects on newborn: Apgar score (Human only) Other Neonatal measures or effects;

Drug Dependence

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

Central nervous system depression, narcosis, damage to heart

Heart Irregularities - Based on Human Evidence

Stomach Irregularities - Based on Human Evidence

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

Synergistic effects

No data available

RTECS:

No data 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)	UN Number 1170 Class 3 Packing Group II
Proper Shipping Name	Ethanol Solutions
Marine Pollutant	No
Poison Inhalation Hazard	No
IMDG	UN Number 1170 Class 3 Packing Group II
Proper Shipping Name	Ethanol Solutions
Marine Pollutant	No
IATA	UN Number 1170 Class 3 Packing Group II
Proper Shipping Name	Ethanol Solutions

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, Chronic Health Hazard
Massachusetts Right to Know components	Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007
Pennsylvania Right to Know components	Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007
New Jersey Right to Know components	Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007
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	2
Chronic Health Hazard*	
Flammability	3
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.

Safety Data Sheet



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