

Safety Data Sheet

HEALTH 2
FLAMMABILITY 3
REACTIVITY 0

Section 1: IDENTIFICATION

Product Name: **Damascenone (Fermentone) 1% in ETOH, Natural**
 Product Number: **0342001**

Recommended Use: Flavorings (Mixture)

Manufacturer: Aurochemicals
 7 Nicoll Street
 Washingtonville, NY 10992 – USA
 845-496-6065
 845-496-6284 Fax


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

Section 2: HAZARD(S) IDENTIFICATION

OSHA Hazards Highly Flammable Liquid, Target Organ Effect, Skin Sensitizer, Carcinogen
 Target Organs Nerves, Liver, Heart
 GHS Classification Flammable Liquids (Category 2)
 Skin sensitisation (Category 1)

Signal Word: DANGER

Pictogram or written description



Hazard Statement: H225 Highly flammable liquid and vapor
 H317 May cause an allergic skin reaction
 H411 Chronic aquatic toxicity

Precautionary Statement P210 Keep away from heat/sparks/open flames/hot surfaces-No smoking
 P280 Wear protective gloves/protective clothing/eye and face protection

HMIS Classification Health Hazard 2
 Chronic Health Hazard*
 Flammability 3
 Physical Hazards 0

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(s)	Classification	Concentration
Ethanol CAS# 64-17-5	Flammable Liquid 2; H225	98-99%

1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one CAS#23696-85-7	Skin Sen.1; Aquatic Chronic 2: H317, H411	1%
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Common Name:	Damascenone
Synonyms:	Fermentone
CAS #	64-17-5/23696-85-7
EC#	200-578-6/245-833-2
Formula	C ₁₃ H ₁₈ O
Index –No	603-003-00-0
Molecular Weight	190.28 g/mol

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 precaution.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with 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, seek medical advice, show this container or label to attending physician.
Clothing contamination:	Remove contaminated clothing and wash before reuse.

Section 5: FIREFIGHTING MEASURES

Conditions of Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface- No smoking.
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Firefighting Procedures:	Do not stay in danger zone without self contained breathing apparatus. Prevent fire-fighting water from entering surface or ground water. Cool unopened containers with water spray from a safe distance.
Other Information	Hazardous decomposition products formed under fire conditions – Carbon oxides

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Evacuate personnel to safe areas. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental-protected measures	Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.

Procedures for cleaning / absorption

Take up with liquid absorbent material. Place in appropriate container and keep closed until disposal.

Ventilate area

After clean up, wash spill area and ventilate the area well

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion proof equipment. Keep away from sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic charge.

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. Recommended storage temp. 2-8°C. Handle and store under inert gas.

Air and moisture sensitive.

Hygroscopic

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:			Components with workplace control parameters	
Components	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 human				
		TWA	1,000 ppm 1,900 mg/m ³	USA. OSHA-Table Z-1 Limits for Air Contaminants-1910.1000
		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
Potential for dermal absorption				

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.

Complete suite protecting against chemicals, made of flame retardant antistatic material 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 face respirator with multi-purpose combination respirator cartridges as a back up to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator.

Eye Protection:

Wear appropriate tightly fitting safety goggles. Face shield (8-inch minimum) NIOSH

tested and approved.

Hand Protection:

Wear chemically resistant gloves of Nitrile rubber. Use proper glove removal technique to avoid skin contact with this product. Wash and dry hands after handling this product

Industrial Hygiene:

Handle in accordance with good industrial hygiene and safety practice. Change contaminated clothing and wash before reuse. Wash hands after working with product. Application of barrier cream is recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Colorless to Pale Yellow
Odor:	Berry
Boiling Point:	78°C
Flashpoint:	16.6°C
Melting Point:	-114°C
Lower Explosion Limit:	No data available
Upper Explosion Limit:	No data available
Vapor Pressure:	No data available
Specific Gravity @ 25°C:	0.800-0.810 g/cm ³
Solubility:	Soluble in water and ethanol

Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid	Heat, Flames and Sparks. Extremes of temperature and direct sunlight.
Materials to avoid	Oxidizing agents, Alkali metals, Ammonia, Peroxides
Hazardous decomposition products:	Fumes formed under fire conditions – carbon oxides
Further information	No data available

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50, Oral -Rat	7060 mg/kg
LC50 Inhalation -Rat	20000 ppm/10H
LD50 Dermal	No data available
Other information on acute toxicity	Poison, irritant, nausea, dizziness, headache
Skin corrosion/irritation	Body tissue irritant
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 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		No data available
Teratogenicity		No data available
Specific target organ toxicity-single exposure (GHS)		Eyes, liver, kidneys, nerves
Specific target organ toxicity-repeated exposures (GHS)		No data available
Aspiration Hazards		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		Central nervous system depression, narcosis, nausea, dizziness, damage to heart. 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
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB assessment	No data available
Other adverse effects	No data available

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

DOT (US)	UN 1170 Class 3 Packing Group II
Proper shipping name	Ethanol solutions, Flammable liquid
Reportable Quantity (RQ)	
Marine pollutant	No
Poison Inhalation Hazard	No
IMDG-Classification	UN 1170 Class 3 Packing Group II EMS-No.: F-E S-D
Proper shipping name	ETHANOL SOLUTIONS, Flammable liquid
Marine pollutant	No

IATA-Classification
Proper shipping name

UN 1170 Class 3 Packing Group II
Ethanol solutions, Flammable liquid

Section 15: REGULATORY INFORMATION

OSHA Hazards	Flammable liquid, Target organ effect, skin sensitizer, Carcinogen		
TSCA Listed	Listed		
EINECS-	Listed (200-578-6)		
RCRA Code	D001		
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, Acute Health Hazard, Chronic Health Hazard		
Massachusetts Right to Know components	Ethanol	CAS# 64-17-5	Rev. Date: 3/1/07
Pennsylvania Right to Know components	Ethanol	CAS# 64-17-5	Rev. Date: 3/1/07
New Jersey Right to Know components	Ethanol	CAS# 64-17-5	Rev. Date: 3/1/07
California Prop. 65 components	This product does not contain 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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