

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	2,6-Nonadienal 1% in EtOH, Natural
Product Number	0337701
CAS-No.	557-48-2/64-17-5

### 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 the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquid (Category 2), H225

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement	Danger	
Hazard Statement(s)	H225	Flammable liquid and vapor.
	H302	Harmful if swallowed
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 non-sparking tools.
	P243	Take precautionary measures against static discharge
	P280	Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/face protection.
	P330	Rinse mouth.

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 to extinguish.  
 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 Cucumber aldehyde/Ethyl alcohol  
 Formula  $C_9H_{14}O/C_2H_6O$   
 Molecular Weight 138.21 g/mol/46.0 g/mol  
 CAS No. 557-48-2/64-17-5  
 EC No. 209-178-6/200-578-6  
 Index No. 603-002-00-5

#### Hazardous Components

Component	Classification	Concentration
Ethanol	Flammable liquid. (Category 2 ); H225	~94 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 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 If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

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

Contact with eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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**  
Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture** Carbon oxides
- 5.3 Advice for fire fighters** Wear self contained breathing apparatus for firefighting if necessary.
- 5.4 Further information** Use water spray to cool unopened containers.

## Section 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.
- 6.2 Environmental precautions** Prevent further leakage or spillage. Discharge into the environment must be avoided. 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 Reference to other sections**  
For disposal see section 13.

## Section 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion proof equipment. Keep away from sources of ignition- No smoking. Take measures to prevent the buildup of electrostatic charges.
- 7.2 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.
- 7.3 Specific End use(s)** Flavorings

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**  
**Components with workplace control parameters**  
**8.2**

Component	CAS-No	Value	Control Parameters	Basis
Ethanol	64-17-5	TWA	1000 ppm	USA, ACGIH Threshold Limit Value (TLV)

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	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body protection	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose 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	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a	Appearance	Form: mobile liquid Color: colorless to pale yellow
b	Odor	Green vegetable, cucumber
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	N/A
f	Initial boiling point and boiling range	~76 °C
g	Flash Point	~18 °C
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	No data available
k	Vapor pressure	No data available
l	Vapor density	2.63 (Air=1.0)
m	Relative density @25°C	0.8000-0.8100

n	Solubility	Soluble in water and ethanol
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	No data available
q	Decomposition Temp,	No data available
r	Viscosity	No data available
s	Explosive properties	No data available
t	Oxidizing properties	No data available
<b>9.2</b>	<b>Other Safety Information</b>	No data available

## Section 10: STABILITY AND REACTIVITY

<b>10.1</b>	<b>Reactivity</b>	No data available
<b>10.2</b>	<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>10.3</b>	<b>Possibility of Hazardous reactions</b>	Vapors may form explosive mixture with air.
<b>10.4</b>	<b>Conditions to avoid</b>	Heat, Flames, Sparks. <b>Extremes of temperature and direct sunlight</b>
<b>10.5</b>	<b>Incompatible materials</b>	Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing Agents
<b>10.6</b>	<b>Hazardous decomposition products</b>	No data available
<b>10.7</b>	<b>Further Information</b>	No data available

## Section 11: TOXICOLOGICAL INFORMATION

<b>11.1</b>	<b>Information on toxicological effects</b>	
	<b>Acute Toxicity</b>	
	LD50- Oral - Rat	7,060 mg/kg
	LC50 - Inhalation:	20,000 ppm 10H
	LD50 Dermal Rabbit	No data available
	Skin corrosion/irritation	Rabbit No skin irritation 24 hr
	Serious eye damage/eye irritation	No data available
	Respiratory or skin sensitization	No data available
	Germ Cell mutagenicity	No data available
	<b>Carcinogenicity</b>	
	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.
	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		Reproductive toxicity – Humans – female - Oral Effects on Newborn: Apgar score (Humans only). Effects on Newborn: 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 the 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:		RA5391800

## Section 12: ECOLOGICAL INFORMATION

12.1	<b>Toxicity</b>	No data available
12.2	<b>Persistence and degradability</b>	No data available
12.3	<b>Bioaccumulative potential</b>	No data available
12.4	<b>Mobility in soil</b>	No data available
12.5	<b>Results of PBT and vPvB assessment</b>	PBT/vPvB assessment not available as chemical safety assessment not required / not conducted
12.6	<b>Other adverse effects</b>	No data available

## Section 13: DISPOSAL CONSIDERATIONS

13.1	<b>Disposal methods</b>	
	Product:	According to local regulations
	Packaging	According to local regulations

## Section 14: TRANSPORT INFORMATION

DOT (US)	<b>UN-Number: 1170 Class: 3</b>	<b>Packing Group: II</b>
	Flammable Liquid, Ethanol	
IMDG	<b>UN-Number: 1170 Class: 3</b>	<b>Packing Group: II</b>
	Flammable Liquid, Ethanol	
IATA	<b>UN-Number: 1170 Class: 3</b>	<b>Packing Group: II</b>
	Flammable Liquid, Ethanol	

## 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	(2E,6Z)-Nona-2-trans,cis-6-dien-1-al; CAS# 557-48-2; Rev. Date: Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007
New Jersey Right to Know components	(2E,6Z)-Nona-2-trans,6-cis-dien-1-al; CAS# 557-48-2; Rev. Date: $\alpha$ -Tocopherol; CAS# 59-02-9 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	0
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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