

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	2,6-Nonadienal 5% in EtOH, Natural
Product Number	0337705
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)

Highly flammable liquid and vapor (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	Highly flammable liquid and vapor.
	H302	Harmful if swallowed
Precautionary Statement(s)	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed.
	P233	Ground/bond container and receiving equipment.
	P240	Use explosion proof electrical/ventilating/lighting/equipment
	P241	Use non-sparking tools.
	P242	Take precautionary measures against static discharge
	P243	Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/face protection.
	P280	Wear protective gloves/ eye protection/face protection.
	P330	Rinse mouth.
	P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated

P370+P378 clothing. Rinse skin with water/shower
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	~95 %

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.

6.2 Environmental precautions

For personal protection see section 8.
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	Clear, colorless to pale yellow mobile liquid
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	~80 °C
g	Flash Point	~20 °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	0.805-0.818
n	Solubility	Soluble in water and in 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

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, Sparks. Extremes of temperature and direct sunlight
10.5	Incompatible materials	Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing Agents
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- 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

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.
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

Safety Data Sheet

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 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
	Flammable Liquid, Ethanol	
IMDG	UN-Number: 1170 Class: 3	Packing Group: II
	Flammable Liquid, Ethanol	
IATA	UN-Number: 1170 Class: 3	Packing Group: II
	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
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Safety Data Sheet

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:
 α -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 2
Chronic Health Hazard*
Flammability 2
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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