

HEALTH	2
COMBUSTIBILITY	2
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name: Nonanal 5% in Ethanol, Natural
Product Number: 0278250
CAS No. 124-19-6/64-17-5

Recommended Use: Flavorings

Manufacturer: Aurochemicals
 7 Nicoll Street
 Washingtonville, NY 10992- USA
 845-496-6065
 845-496-6248 Fax

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

Section 2: HAZARD(S) IDENTIFICATION

OSHA Hazards Flammability, Irritant

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Flammable Liquids (Category 2)
 Acute toxicity, Oral (Category 5)
 Skin irritation (Category 2)
 Eye irritation (Category 2A)
 Specific target organ toxicity – Single Exposure (Category 3)
 Long-term (chronic) aquatic hazard (Category 3)

GHS Label elements, including precautionary statements

Pictogram



Signal Word: Warning

Hazard Statement:

H225	Highly flammable liquid and vapor
H303	May be harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye damage
H335	May cause respiratory irritation
H412	Long-term (chronic) aquatic hazard (Category 3)

Precautionary Statement	P210	Keep away from heat/sparks/open flames/hot surfaces-No smoking
	P233	Keep container tightly closed.
	P240	Ground/bond container and receiving equipment.
	P261	Avoid breathing dust/fume/gas/mist/vapors/spray
	P264	Wash skin thoroughly after handling
	P271	Use only outdoors or in a well-ventilated area
	P273	Wash skin thoroughly after handling.
	P280	Wear protective, gloves, clothing, eye and face protection
	P302+P352	IF ON SKIN: Wash with plenty of soap and water.
	P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
	P312	Call a POISON CENTER or doctor/physician if you feel unwell.
	P332+P313	If skin irritation occurs: Get medical advice/attention
	P337+P313	If eye irritation persists: Get medical advice/attention
	P362	Take off contaminated clothing and wash before reuse
	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
HNOC (Hazards not otherwise classified or not covered by GHS)	None	
Potential Health Effects	Inhalation	May be harmful if inhaled. Causes respiratory tract irritation
	Skin	May be harmful if absorbed through skin. Causes skin irritation
	Eyes	Causes eye irritation
	Ingestion	May be harmful if swallowed

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances

Synonyms Pelargonaldehyde; Nonyl Aldehyde; Aldehyde C9 / Ethyl alcohol

Molecular Formula $C_9H_{18}O/C_2H_6O$
Molecular Weight 142.24 g/mol/46.07 g/mol
CAS # 124-19-6/64-17-5
EC# 204-688-5/200-578-6

Hazardous Components

Component	Classification	Concentration
Nonanal	Combustible Liquid (2), H227; Skin irritant (2), H315 Eye Irritant (2A), H319; May cause Respiratory irritation H335 Specific Target Organ Toxicity-Single Exposure (3)	~ 5%
Ethanol	Flammable liquids (Category 2), H225 Eye Irritant (Category 2A), H319	~ 95%

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 and seek medical advice.
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, seek medical advice, show this container or label to attending physician.
Clothing contamination:	Wash contaminated clothing before re-use.

Section 5: FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special hazards arising from the substance or mixture	Hazardous decomposition products formed under fire conditions – Carbon oxides
Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Other Information	Use water spray to cool unopened containers.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas 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 let product enter drains.
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. 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.
Specific end use(s)	Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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 Value (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

Exposure Limits:

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 respirators are appropriate the respirator should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. Use respirators and components tested and approved under appropriate government standards such as NIOSH.

Eye Protection:

Wear appropriate 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).

Hand Protection:

Wear chemically resistant Nitrile rubber gloves and 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

Form:	Liquid
Color:	Colorless or slightly yellow liquid
Odor:	Strong fatty, also orange and rose when diluted
Boiling Point:	<93 °C
Flashpoint:	>18 °C
Melting Point	No data available
Ignition temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure:	No data available

Safety Data Sheet

Specific Gravity @ 25°C: 0.830-0.840
Solubility: Soluble in alcohol, most fixed oils, propylene glycol

Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions Contains the following stabilizers α -Tocopherol ($\geq 0.1\%$)
Possibility of Hazardous reactions	No data available
Conditions to avoid	Heat, flames and sparks
Materials to avoid	Strong bases, Strong reducing agents, Strong oxidizing agents
Hazardous decomposition products	Carbon oxides

Section 11: TOXICOLOGICAL INFORMATION

LD50, Oral Rat	>5,000 mg/kg Remarks: Behavioral: Somnolence (general depressed activity) Kidney, Ureter, Bladder: Urine volume increased
LC50 Inhalation	20,000 ppm 10H
LD50 Dermal	No data available
Further toxicological information	No data available
Skin corrosion / irritation	Rabbit – Severe skin irritation -24h
Serious eye damage / eye irritation	Rabbit – moderate eye irritation
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	Rat: Liver: sister chromatid exchange Hamster: Lungs: mutation in mammalian somatic cells
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)	Inhalation – May cause respiratory irritation
Specific target organ toxicity-Repeated Exposure (GHS)	No data available

Safety Data Sheet

Aspiration hazard	No data available
Synergistic effects	No data available
RTECS	RA5700000

Section 12: ECOLOGICAL INFORMATION

Toxicity	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:	Flammable Liquid, Nonanal Solution in Ethanol
Reportable Quantity (RQ)	No
Marine Pollutant	No
Poison inhalation hazard	No
IMDG	UN 1170 Class: 3 Packing Group II
Proper shipping name:	Flammable Liquid, Nonanal Solution in Ethanol
IATA	UN 1170 Class: 3 Packing Group II
Proper shipping name:	Flammable Liquid, Nonanal Solution in Ethanol

Section 15: REGULATORY INFORMATION

OSHA Hazards	Irritant
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	Fire Hazard, Acute Health Hazard, Chronic health hazard
Massachusetts Right to Know Components	Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007
Pennsylvania Right to Know Components	Nonanal CAS # 124-19-6 Rev. Date: Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007
New Jersey Right to Know Components	Nonanal CAS # 124-19-6 Rev. Date: Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007

Safety Data Sheet

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.

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