

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name: **Trans-2,cis-4-Nonadienol 5% in Ethyl Acetate, Natural**
 Product Number: **0395105**
 CAS-No.: **62488-56-6/141-78-6**

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

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

Hazard Statement:

H225 Highly flammable liquid and vapor
 H315 Causes skin irritation.
 H319 Causes serious eye irritation
 H336 May cause drowsiness or dizziness

Pictogram or written description



Signal Word:

Danger

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/ventilation/lighting equipment
 P242 Use only non-sparking tools
 P243 Take precautionary measures against static discharge
 P261 Avoid breathing mist or vapor
 P264 Wash thoroughly after handling

P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/Eye protection/face protection
P381	Eliminate all ignition sources if safe to do so
P303+P361+P353	IF ON SKIN (or hair) Remove immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position 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
P337+P313	If eye irritation persists – get medical advice/attention
P370+P378	In case of fire: Use appropriate media for extinction
P403+P233	Store in well ventilated place. Keep container tightly closed
P403+P235	Store in a well ventilated place. Keep cool
P405	Sore locked up
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

Hazards not otherwise classified (HNOC)

Static accumulating flammable liquid

Supplemental information Hazard Statement

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	trans-2,cis-4-Nonadienol 5% / Ethyl Acetate 95%
Common Name:	Cucumber alcohol/Ethyl Acetate
Synonyms:	Cucumber alcohol; Ethyl Ester of Acetic Acid
CAS #	62488-56-6/141-78-6
Molecular Formula	C ₉ H ₁₆ O

Section 4: FIRST AID MEASURES

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist
Skin Contact	Remove contaminated clothing. Wash skin with cool water then with mild soap and warm water for several minutes. Get medical attention if irritation develops or persists
Eye Contact	Remove contact lenses if present and easy to do. Promptly wash eyes with plenty of water, lifting eye lids as you rinse. Get medical attention if irritation develops or persists.
Ingestion	Call a physician or poison control center immediately. If swallowed, rinse mouth with water, (only if person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so the stomach vomit does not enter the lungs.
Symptoms of Exposure	Irritation of eyes and mucous membranes. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Clothing: Remove contaminated clothing and wash before re-use

General Information: Make sure the attending physician is shown the label of the product as well as the Safety Data Sheet

Section 5: FIREFIGHTING MEASURES

Extinguishing Media: Water spray, fog, Co2, Dry chemical or alcohol resistant foam
Do not use a solid water stream as it may scatter and spread the fire

Special Firefighting Procedures: Do not stay in danger zone without self contained breathing apparatus
Prevent fire-fighting water from entering surface or ground water
Use water spray to cool unopened containers

Special Risks: Highly flammable. Vapors heavier than air. Vapors may travel considerable distance to source of ignition and flash back.
Container explosion may occur under fire conditions.
Forms explosive mixtures in air
Development of hazardous combustion gases or vapors possible in the event of fire – ethanol, acetic acid

Section 6: ACCIDENTAL RELEASE MEASURES

Person-related precautionary measures: Do not inhale vapors, Ensure supply of fresh air in enclosed rooms
Wear respirator, safety glasses, and chemical resistant gloves. Do not touch damaged containers or spilled material unless wearing protective equipment

Environmental-protected measures: Do not allow to enter drains, or sewage system, avoid release into the environment

Procedures for cleaning / absorption: With absorbent, sweep up and discard in container, set out for disposal.

Ventilate area: After sweep up, wash area and ventilate area well

Section 7: HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and clothing. Do not handle or store near open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid prolonged exposure. Wash hands thoroughly after handling

Storage: Open slowly in order to control possible pressure release. Store tightly closed, in cool, dry well ventilated place – no smoking. Protect from moisture.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:		Contains substances with Occupational Exposure Limits		
Chemical	CAS#	Value	Control Parameters	Basis

Ethyl Acetate	141-78-6	PEL	1400 mg/m ³ 400 ppm	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Ethyl Acetate	141-78-6	TWA	400 ppm	US. ACGIH Threshold Limit Values
Ethyl Acetate	141-48-6	REL	1400 mg.m ³ 400 ppm	US. NIOSH Pocket Guide to Chemical Hazards
Appropriate Engineering Controls		Use explosion proof ventilation equipment to stay below 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:	Protective clothing 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:	Required when vapors / aerosols are generated Full face chemical respirator with organic vapor cartridges
Eye Protection:	Wear eye and face protection – Face Shield – Avoid contact with eyes
Hand Protection:	Wear chemically resistant gloves
Industrial Hygiene:	Handle in accordance with good industrial hygiene and safety practice. Wash hands after working with product

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless viscous liquid
Odor:	Green vegetable, cucumber
Boiling Point:	78°C
Flashpoint:	- 4°C
Melting Point:	N/A
Ignition temperature	N/A
Oxidizing Properties:	Not oxidizing; flammable
Lower Explosion Limit	2.1 vol%
Upper Explosion Limit	11.5 vol %
Vapor Pressure:	97 hPa
Specific Gravity @ 25°C:	0.885-0.900
Solubility	Insoluble in water; soluble in ethanol

Section 10: STABILITY AND REACTIVITY

Conditions to be avoided	Heating
Substances to be avoided	Alkali metals, fluorine, hydrides, strong oxidizing agents
Hazardous decomposition products:	formed under fire conditions – ethanol, acetic acid
Further information	Light sensitive; sensitive to air; unsuitable working materials: various plastics. Explosible with air in a vaporous/gaseous state

Section 11: TOXICOLOGICAL INFORMATION

LD50, Oral Rat	11.3 ml/kg
LC50 Inhalation Rat	1600 ppm (v) /6 h
LD50 Dermal Rabbit	>18000 mg/kg
EYE-HMN	400 ppm
Reproductive Toxicity	No data available
Potential Health Effects (Acute Effects)	
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	Causes serious eye irritation
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	Not considered to be carcinogen by IARC, ACGIH, NTP or OSHA
Reproductive toxicity	No data available
Specific target organ Toxicity-single exposure (GHS)	May cause irritation to the respiratory system – Narcotic effect
Specific target organ toxicity-repeated exposure (GHS)	No data available
Aspiration hazard	No data available
Prolonged exposure can cause:	Nausea, headache and vomiting, narcotic effect, anemia
Target Organs	Liver, Kidney, Central nervous system, Blood
RTECS#	AH5425000

Only a selected registry of toxic effects of chemicals substances data is represented here. See actual entry in RTECS for complete information.

Section 12: ECOLOGICAL INFORMATION

Ecotoxic effects	
Further ecological data	Aquatic Fish: LC50 Indian catfish (Heteropneustes fossilis 200.32-225.42 mg/l 96h Do not allow to enter water, drain or soil

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

DOT (US)	UN1173 Class 3 Packing Group II
Proper Shipping Name	2,4-Nonadienol solution in Ethyl Acetate; Flammable liquid; n.o.s.
Reportable Quantity (RQ)	500lbs
Poison Inhalation Hazard:	No
IMDG-Classification	UN1173 Class 3 Packing Group II EMS-No: F-E, S-D
Proper Shipping Name	2,4-Nonadienol solution in Ethyl Acetate; Flammable liquid; n.o.s.
IATA-Classification	UN1173 Class 3 Packing Group II
Proper Shipping Name	2,4-Nonadienol solution in Ethyl Acetate; Flammable liquid; n.o.s.

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 311/312 Hazards	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
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.

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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