

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	<b>Nonanol, Natural</b>
Product Number	<b>0278900</b>
CAS-No.	143-08-8

### 1.2 Product Recommended Use

**Flavorings**

### 1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992
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 substance or mixture

*GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)*  
 Acute toxicity, Inhalation (Category 3) H331  
 Eye irritation (Category 2A) H319  
 Acute aquatic toxicity (Category 2) H401  
 Chronic aquatic toxicity (Category 2) H411

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

**DANGER**

Hazard Statement(s)

H319	Causes serious eye irritation
H331	Toxic if inhaled
H411	Toxic to aquatic life with long lasting effects

Precautionary Statement(s)

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	Avoid release to the environment
P280	Wear protective gloves/eye protection/face protection
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.

P311	Call a POISON CENTER or doctor/physician if you feel unwell.
P333+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists; get medical advice/attention
P391	Take off contaminated clothing and wash before reuse
P403+P233	Store in a well ventilated place. Keep container tightly closed
P405	Store locked up
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

Synonyms	1-Nonanol Nonyl Alcohol Alcohol C-9
Formula	C <sub>9</sub> H <sub>20</sub> O
Molecular Weight	144.25 g/mol
CAS-No	143-08-8
EC-No.	205-583-7

#### Hazardous Components

Component	Classification	Concentration
Nonan-1-ol	Acute Toxicity, Inhalation (3) H319 Acute Aquatic Toxicity (2) H331 Chronic Aquatic Toxicity (2) H411	

## Section 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

General advice	Consult physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area
Inhalation	Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a physician
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water and contact a physician.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 as a precaution.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
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: ACCIDENTIAL RELEASE MEASURES

- |     |  |   |
|-----|--|---|
| 6.1 | <b>Personal precautions, protective equipment and emergency procedures</b> | Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area. |
| 6.2 | <b>Environment precautions</b>   | Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.                                  |
| 6.3 | <b>Methods and materials for containment and clean up</b>                  | Contain spillage. Soak up with absorbent material. Sweep up with broom and shovel. Place in a suitable, closed container for disposal |
| 6.4 | <b>Specific end use(s)</b>   | Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.  |

## Section 7: HANDLING AND STORAGE

- |     |                                      |   |
|-----|--------------------------------------|---|
| 7.1 | <b>Precautions for safe handling</b> | Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection.  |
| 7.2 | <b>Conditions for Safe storage</b>   | 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 | <b>Specific End use(s)</b>           | Flavorings - Fragrances   |

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- |     |                                      |  |
|-----|--------------------------------------|--|
| 8.1 | <b>Control parameters</b>            | Contains no substances with occupational exposure limit values   |
| 8.2 | <b>Exposure Controls</b>             |  |
|     | Appropriate Engineering Controls     | Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of the day. Handle in accordance with good industrial hygiene and safety practices.  |
|     | <b>Personal protective equipment</b> | <b>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.</b>   |
|     | Eye/face protection                  | Wear appropriate safety glasses with side shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).   |
|     | Skin protection                      | Wear chemically resistant, Nitrile rubber gloves, 0.4mm thick when handling this product. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.   |
|     | Body protection                      | Impervious 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 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. Discharge into the environment must be avoided.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a	Appearance	Liquid, Clear Colorless to pale yellow liquid
b	Odor	Rose, orange, slightly fatty, bitter reminiscent of orange
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	-8 to -6oC
f	Boiling Point	213oC
g	Flash Point	97.7°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	No data available
k	Vapor pressure	117 hPa at 104°C
l	Vapor density	4.98 (Air = 1.0)
m	Relative density at 25°C	0.824-0.830
n	Solubility	Miscible in alcohol, chloroform, ether Insoluble in water
o	Partition coefficient: n-octanol/water	log Pow: 3.77
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	No data available
10.4	Conditions to avoid	No data available
10.5	Incompatible materials	Strong oxidizing agents, Strong Bases, Bases
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

<b>Acute Toxicity</b>	
LD50-Oral-Rat	3,560 mg/kg
LC50-Inhalation-Mouse	5,500 mgm <sup>3</sup> 2 h
LD50-Dermal-Rabbit	4,686 mg/kg
Skin corrosion/irritation	Human – No skin irritation Rabbit – No skin irritation
Serious eye damage/eye irritation	Rabbit – Irritating to eyes

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

**Rat – Oral: Effects on Embryo or Fetus: Fetotoxicity (except death; e.g. stunted fetus). Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea). Effects on Fertility: Post implantation mortality (e.g. dead and/or resorbed implants per total number of implants)**

### Developmental Toxicity – Rat – Oral

**Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Newborn: Biochemical and metabolic.**

Teratogenicity No data available  
Specific target organ toxicity-single exposure (GHS) **Inhalation – May cause respiratory irritation**  
Specific target organ toxicity-repeated exposures (GHS) No data available  
Aspiration Hazards No data available  
Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated  
Synergistic effect No data available  
RTECS: RB1575000

## Section 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

To Fish LC50 – Pimephales promelas (fathead minnow) 5.5 mg/l – 96 h  
To Daphnia and other aquatic invertebrates EC50 - Daphnia 2.5 mg/l – 48 h

### 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

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

### Section 13: DISPOSAL CONSIDERATIONS

#### 13.1 Disposal methods

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

### Section 14: TRANSPORT INFORMATION

**DOT (US)** Not dangerous goods  
**IMDG** UN-Number: 3082 Class: 9 Packing Group: III EMS-No.: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Nonan-1-ol)  
Marine Pollutant: Yes  
**IATA** UN-Number: 3082 Class: 9 Packing Group: III EMS-No.: F-A, S-F  
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (nonan-1-ol)

**Further Information:** **EHS-Mark** required (ADR 2.2.9.1.10, IMDG Code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods >5L for liquids, or > 5kg for solids

### Section 15: REGULATORY INFORMATION

Reach No. A registration number is not available for this substance as its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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 Acute health hazard

Massachusetts Right to Know components No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know components Nonan-1-ol CAS# 143-08-8 Rev. Date:

New Jersey Right to Know components Nonan-1-ol CAS# 143-08-8 Rev. Date:

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

#### HMIS Rating

Health hazard 2  
Chronic Health Hazard  
Flammability 1  
Physical Hazard 0

# Safety Data Sheet

## 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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