

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name: **Citronellol, Natural**
 Product Number: 0230900
 CAS No: 106-22-9

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 Skin sensitiser, Irritant

GHS Classification Acute toxicity, Oral (Category 5)
 Acute toxicity, Dermal (Category 5)
 Skin irritation (Category 2)
 Eye irritation (Category 2A)
 Skin sensitisation (Category 1)
 Acute aquatic toxicity (Category 2)

GHS Label elements, including precautionary statements

Pictogram 

Signal Word: Warning

Hazard Statement(s):
 H303+H313 May be harmful if swallowed or in contact with skin
 H315 Causes skin irritation
 H317 May cause an allergic skin reaction
 H319 Causes serious eye irritation
 H402 Harmful to aquatic life

Precautionary Statement(s):
 P280 Wear protective gloves
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses if present and easy to do. Continue rinsing

Safety Data Sheet

HMIS Classification	Health Hazard	2
	Flammability	0
	Physical Hazards	0

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

Formula	C ₁₀ H ₂₀ O
Molecular Weight	156.27 g/mol
CAS #	106-22-9
EC#	203-375-0

Component	Concentration
Citronellol	-

Section 4: FIRST AID MEASURES

General Advice:	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

Conditions of Flammability	Not flammable or combustible
Suitable extinguishing media	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide
Special protective equipment for firefighters	Wear self contained breathing apparatus for firefighting if necessary
Other Information	Hazardous decomposition products formed under fire conditions – Carbon oxides.

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas.
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 vapors or mist,
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Contains no substances with occupational exposure limit values
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 air-purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN1437) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Eye Protection:	Wear appropriate safety glasses with side shields. 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 0.4 mm thick and use proper glove removal techniques to avoid skin contact with this product. 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 to pale yellow
Odor:	Rosy

Melting Point	-21°C
Boiling Point:	225°C
Flashpoint:	98°C
Ignition temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure:	No data available
Specific Gravity @ 25°C:	0.850-0.865
Solubility	Insoluble in glycerol; slightly soluble in water, soluble in most fixed oils, propylene glycol and ethanol.

Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous reactions	No data available
Conditions to avoid	No data available
Materials to avoid	Strong Oxidizing Agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions-Carbon oxides.

Section 11: TOXICOLOGICAL INFORMATION

LD50, Oral Rat	3,450 mg/kg
LC50 Inhalation	No data available
LD50 Dermal -Rabbit	2,650 mg/kg
Further toxicological information	No data available
Skin corrosion / irritation	Human: Skin irritation 48 h
Serious eye damage / eye irritation	No data available
Respiratory or skin sensitization	Mouse: May cause sensitisation by skin contact
Germ cell mutagenicity	No data available
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 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 No data available
 Specific target organ toxicity-Single Exposure (GHS) No data available
 Specific target organ toxicity-Repeated Exposure (GHS) No data available
 Aspiration hazard No data available

Potential health effects
 Inhalation May be harmful if inhaled. Causes respiratory tract irritation
 Ingestion May be harmful if swallowed
 Skin May be harmful if absorbed through skin. Causes skin irritation
 Eyes Causes eye irritation

Signs and Symptoms of Exposure Cough, Shortness of Breath, Headache, Nausea, Vomiting

Synergistic effects No data available
 RTECS RH3400000

Additional information To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Section 12: ECOLOGICAL INFORMATION

Toxicity
 Toxicity to fish LC50-Leuciscus idus (Golden orfe) – 10.0-22.0 mg/l – 96h

Toxicity to daphnia and other aquatic invertebrates EC50-Daphnia – 17.0 mg/l – 48 h

Toxicity to algae EC50- Algae – 2.4 mg/l 72 h

Other adverse effects
 Chemical Oxygen Demand (COD) 2,050 mg/g

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

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

Section 15: REGULATORY INFORMATION

OSHA Hazards	Skin sensitiser, 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	Acute Health Hazard
Massachusetts Right to Know Components	No components are subject to the Massachusetts Right to Know Act
Pennsylvania Right to Know Components	Citronellol CAS # 106-22-9 Rev. Date:
New Jersey Right to Know Components	Citronellol CAS # 106-22-9 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

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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