

HEALTH 2 FLAMMABILITY 2 REACTIVITY 0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name Citronellal, Natural

Product Number **0230700** CAS-No. **106-23-0**

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)

Flammable liquids (Category 4) H227 Acute toxicity, Oral (Category 4) H302 Skin irritation (Category 2), H315 Skin sensitization (Category 1A) H317 Eye irritation (Category 2A) H319

Specific target organ toxicity (Category 3) H335

2.2 GHS Label Elements, Including precautionary statements

Pictogram

Signal Statement Warning

Hazard Statement(s) H227 Combustible liquid

H302 Harmful if swallowed H315 Causes skin irritation

H317 May cause respiratory irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

2307 Citronellal Nat sds.doc Printed: August 9, 2022 Page 1 of 8

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Statement(s) P261 Avoid breathing dust/fume.gas/mist/vapors/spray	
P264 Wash skin thoroughly after handling	
P270 Do not eat, drink or smoke when using this product	
P271 Use only outdoors or in a well-ventilated area	
P272 Contaminated work clothing should not be allowed our of the workplace. Wear protective gloves/eye protection/face protection	
P280 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell	
P301+P312 IF ON SKIN: Wash with plenty of soap and water	
P302+P352 IF INHALED: Remove victim to fresh air and keep at rest in a position comforta	ole for
P304+P340 breathing.	
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact le	nses, if
P305+P351+P338 present and easy to do. Continue rinsing.	
Call a POISON CENTER or doctor/physician if you feel unwell.	
P312 Rinse mouth	
P330 If skin irritation or rash occurs: Get medical advice/attention	
P333+P313 If eye irritation persists; get medical advice/attention	
P337+P313 Take off contaminated clothing and wash before reuse	
P362 In case of fire, use dry sand, dry chemical or alcohol resistant foam for extinction	١.
P370+P378 Store in a well ventilated place. Keep container tightly closed	
Store in a well-ventilated place. Keep cool.	
P403+P233 Store locked up	
P403+P235 Dispose of contents/container to an approved waste disposal plant.	
P405	
P501	

2.3 HNOC (Hazards not otherwise classified or not covered by GHS -None

COMPOSITION / INFORMATION ON INGREDIENTS Section 3:

3.1 **Substances**

Synonyms (±)-3,7-Dimethyl-6-octenal

Formula C₁₀H₁₈O Molecular Weight 154.25 g/mol CAS-No 154.25 EC-No. 106-23-0

Hazardous Components

Component	Classification	Concentration
Citronellal	Flammable Liquid (4) H227	-
	Skin irritation (2) H315	
	Eye irritation (2A) H319	
	STOT SE (3) H335	
Isopulegol	Flammable Liquid (4) H227	5-10%
	Acute Toxicity, Oral (4)	
	Skin irritation (2) H315	
	Eye irritation (2A) H319	
3,7-Dimethyloctanal	STOT SE (3) H335	
	Flammable Liquid (4) H227	1-5%
	Skin irritation (2) H315	
	Eye irritation (2A) H319	

Page 2 of 8 2307 Citronellal Nat sds.doc Printed: August 9, 2022



Citral	Skin irritation (2) H315 1-5	%
	Skin sensitisation (1) H317	

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.

Rinse thoroughly with plenty of water for at least 15 as a precaution and consult a Contact with eyes:

physician.

DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Ingestion

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

Indication of any immediate medical 4.3

attention and special treatment needed.

No data available

Section 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special hazards arising from the 5.2

substance or mixture

Carbon oxides

Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes Advice for fire fighters 5.3

under fire conditions

Further information 5.4 Use water spray to cool unopened containers.

Section 6: **ACCIDENTIAL RELEASE MEASURES**

Personal precautions, protective 6.1 equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe area.

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Page 3 of 8 2307 Citronellal Nat sds.doc Printed: August 9, 2022



6.2 Environment precautions Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or

sewage system.

6.3 Methods and materials for containment

and clean up

Contain spillage. Soak up with absorbent material. Sweep up with broom and shovel.

Place in a suitable, closed container for disposal.

6.4 Specific end use(s) Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

Section 7: HANDLING AND STORAGE

7.1 **Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapor and mist.

Keep away from sources of ignition- No smoking. Take measures to prevent the buildup

of electrostatic charge

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

Component	CAS-No.	Value	Control parameters	Basis
Citral	5392-40-5	TWA	5 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respir	atory Tract irritation	
		Eye Damage		
		Body Weight	effects	
		2010 Adoptio	n	
		Not classified	as a human carcinogen	
		Danger of cut	aneous absorption	
		Sensitizer		

8.2 Exposure Controls

Appropriate Engineering Controls Handle in accordance with good industrial hygiene and safety practices.

Wash hands before breaks and at the end of the day.

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

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, rubber gloves when handling this product. Use proper

glove removal techniques (without touching gloves outer surface) to avoid skin

2307 Citronellal Nat sds.doc Printed: August 9, 2022 Page 4 of 8

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Safety Data Sheet



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 multi-purpose 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 Colorless to slightly yellow liquid

b Odor Intense lemon, citronella rose type odor

c Odor Threshold No data available

d pH No data available

e Melting Point /Freezing Point No data available

f Boiling Point 206°C

g Flash Point 98°C

h Evaporation Rate No data available

Flammability (Solid, Gas)

No data available

j Upper/lower Flammability Limit No data available

k Vapor pressure No data available

I Vapor density No data available

m Relative density at 25°C 0.850-0.865

n Solubility Insoluble in water & glycerol, soluble in fixed oils & ethanol, slightly soluble in glycol

o Partition coefficient: n-octanol/water No data available

p Auto-ignition Temp. No data available

2307 Citronellal Nat sds.doc Printed: August 9, 2022 Page 5 of 8



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 Heat, Flames and sparks.

10.5 Incompatible materials Oxidizing agents, Reducing Agents, Strong Bases

10.6 Hazardous decomposition products10.7 Further InformationNo data availableNo data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral-Rat 2,420 mg/kg

LC50-Inhalation No data available

LD50-Dermal-Rabbit >2,500 mg/kg

Skin corrosion/irritation

Serious eye damage/eye irritation Respiratory or skin sensitization Germ Cell mutagenicity No data available

No data available No data available 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.

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

Teratogenicity

No data available
No data available

2307 Citronellal Nat sds.doc Printed: August 9, 2022 Page 6 of 8

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Specific target organ toxicity-single

exposure (GHS)

Specific target organ toxicity-repeated

exposures (GHS)

Aspiration Hazards

Inhalation – May cause respiratory irritation

No data available

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: Not available

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) NA-Number: 1993 Class: None Packing Group: III

Proper shipping name: Combustible liquid, n.o.s. (3,7-Dimethyloctanal)

Reportable Quantity (RQ)

Marine Pollutant:

No
Poison Inhalation Hazard:

No

IMDG UN-Number: 3082 Class: 9 Packing Group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S.

(3,7-Dimethyloctanal)

Marine Pollutant: No

IATA UN-Number: 3082 Class: 9 Packing Group: III

Proper shipping name: Environmentally Hazardous Substance, Liquid, n.o.s, (3,7-Dimenthyloctanal)

Further Information: EHS-Mark required (ADR 2.2.9.1.10, INDG 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

2307 Citronellal Nat sds.doc Printed: August 9, 2022 Page 7 of 8



Reach No. A registration number is not available for this substance as its uses are exempted from

registration, the annual tonnage nod 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 Fire Hazard, Acute Health Hazard

Massachusetts Right to Know

components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know components Citronellal CAS# 106-23-0 Rev. Date:

Isopulegol CAS# 89-79-2 3,7-Dimethyloctanal CAS# 5988-91-0

New Jersey Right to Know components Citronellal CAS# 106-23-0 Rev. Date:

Isopulegol CAS# 89-79-2 3,7-Dimethyloctanal CAS# 5988-91-0 Citral CAS# 5392-40-5

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 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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2307 Citronellal Nat sds.doc Printed: August 9, 2022 Page 8 of 8