

HEALTH 2 **FLAMMABILITY** 1 REACTIVITY 0

PRODUCT AND COMPANY IDENTIFICATION Section 1:

Product identifiers

Product Name Citral, Natural **Product Number** 0230300 CAS-No. 5392-40-5 1.2 Product Recommended Use **Flavorings**

1.3 Preparation Information

Aurochemicals Company 7 Nicoll Street

Washingtonville, NY 10992 - USA

845-496-6065 Telephone 845-496-6248 Fax

Emergency Telephone Number 1-800-535-5053

International - 1-352-323-3500 collect

Section 2: HAZARD(s) IDENTIFICATION

Classification of substance or mixture 2.1

GHS Classification in accordance with 29

CFR 1910 (OSHA HCS)

OSHA HAZARDS: Skin sensitiser, Irritant

Acute toxicity, Oral (Category 5) H303 Acute toxicity, dermal (Category 5), H313 Skin irritation (Category 2) H315 Skin sensitisation (Category 1) H317

2.2 GHS Label Elements, Including precautionary statements

Pictogram

Signal Statement WARNING

Hazard Statement(s)

H303+H313 May be harmful if swallowed or in contact with skin

Causes skin irritation H315

H317 May cause an allergic skin reaction

Precautionary Statement(s)

P280 Wear protective gloves

2.3 **HNOC** (Hazards not otherwise None

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classified or not covered by GHS

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms Geranial and neral mixture

3,7 - Dimethyl-2-6-octadienal

Hazardous Components

Component Classification Concentration

Citral Acute toxicity, Oral (Category 5) H303 <=100%

Acute toxicity, dermal (Category 5), H313 Skin irritation (Category 2) H315 Skin sensitisation (Category 1) H317

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice Consult a 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. Consult 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 chemicals or carbon dioxide

5.2 Special hazards arising from the

substance or mixture

Carbon oxides

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

5.4 Further information No data available

Section 6: ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors. Mist or gas. Ensure

adequate ventilation. Evacuate personnel to safe areas.

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

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 or mist.

7.2 **Conditions for Safe storage** Keep container tightly closed in a dry and well-ventilated place

Handle and store under inert gas. Air and moisture sensitive.

7.3 Specific End use(s) Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Components	CAS-No.	Value	Control	Basis	
•			Parameters		
Citral	5392-40-5	TWA	5 ppm	USA. ACGIH Threshold Limit Values (TLV)	
	Upper respiratory Tract Irritation, Eye damage body weight affects 2010 Adoption. Not				
		classified as a human carcinogen. Danger of cutaneous absorption. Sensitizer.			

8.2 Exposure Controls

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

Mechanical exhaust required, Safety Shower and Eye Bath.

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 tightly fitting safety goggles. NIOSH tested and approved.

Skin protection Wear chemically resistant gloves of Butyl-Rubber, 0.3mm thick. 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.

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Body protection Complete suite protecting against chemicals, made of flame retardant antistatic material

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 wit 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).

Prevent further leakage or spillage if safe to do so. Do not let product enter drains Control of environmental exposure

PHYSICAL AND CHEMICAL PROPERTIES Section 9:

9.1 Information on basic physical and chemical properties

Appearance Pale yellow oily liquid

b Odor Citrus

Odor Threshold С No data available d No data available Melting Point /Freezing Point No data available е

Boiling Point f 228°C

Flash Point 95°C closed cup **Evaporation Rate** No data available Flammability (Solid, Gas) No data available

Upper/lower Explosion Limit Lower Explosion Limit: 4.3%

Upper Explosion Limit: 9.9%

k Vapor pressure < 1 hPa @50°C Vapor density 5.26 (Air=1.0) m Relative density@25°C 0.885-0.891

Solubility Very slightly soluble in water, insoluble in glycerol, soluble in fixed oils, mineral oils, n

propylene glycol & ethanol

Partition coefficient: n-octanol/water No data available O Auto-ignition Temp. No data available р Decomposition Temp. No data available q Viscosity No data available No data available Explosive properties Oxidizing properties No data available Other Safety Information No data available

STABILITY AND REACTIVITY Section 10:

10.1 Reactivity No data available

10.2 **Chemical Stability** Stable under recommended storage conditions

10.3 Possibility of Hazardous reactions No data available Conditions to avoid 10.4 No data available

Incompatible materials Strong oxidizing agents, Strong acids, Strong bases 10.5 Hazardous decomposition products Formed under fire conditions - Carbon Oxides 10.6

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10.7 Further Information No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral-Rat 4,960 mg/kg

Remarks: Behavioral: Somnolence (general depressed activity)

LC50-Inhalation No data available

LD50-Dermal-Rabbit 2,250 mg/kg

Skin corrosion/irritation Rabbit: Skin irritation -24hr

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization May cause allergic skin reaction

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 Over exposure may cause reproductive disorder(s) based on tests with laboratory

animals.

Teratogenicity No data available

Specific target organ toxicity-single

exposure (GHS)

No data available

Specific target organ toxicity-repeated

exposures (GHS)

No data available

Aspiration Hazards 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.

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To the best of our knowledge, the chemical, physical, and toxicological properties have

not been thoroughly investigated

Synergistic effect No data available

RTECS: RG5075000

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)

IMDG

Not dangerous goods

IATA

Not dangerous goods

Not dangerous goods

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 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 Acute health hazard

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

components

Pennsylvania Right to Know components Citral CAS# 5392-40-5 Rev. Date:

New Jersey Right to Know components Citral CAS# 5392-40-5 Rev. Date:

California Prop. 65 components This product does not contain any chemicals known to State of California to cause

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cancer, birth defects, or any other reproductive harm.

Section 16: OTHER INFORMATION

HMIS Rating

Health hazard 2
Chronic Health Hazard*
Flammability 1
Reactive 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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