

HEALTH 0 FLAMMABILITY 1 REACTIVITY 0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name Triethyl Citrate, Natural

Product Number 0308300
CAS-No. 77-93-0
EC No. 201-070-7
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)

Not a hazardous substance or mixture

2.2 GHS Label Elements, Including precautionary statements

Pictogram None
Signal Statement None
Hazard Statement(s) None

Precautionary Statement(s) None

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

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

 $\begin{array}{ccc} Formula & C_{12}H_{20}O_7 \\ Molecular Weight & 276.28 \text{ g/mol} \\ CAS-No & 77-93-0 \\ EC-No. & 201-070-7 \end{array}$

No ingredients are hazardous according to OSHA criteria and none need to be disclosed according to the applicable regulations

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

Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a Inhalation

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. Contact with eyes:

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

Rinse mouth with water. Consult a physician.

Remove contaminated clothing and wash before reuse. Clothing contamination:

4.2 Most important symptoms and effects

both acute and delayed

See section 2.2 and or section 11

Indication of any immediate medical attention and special treatment needed

No data available

Section 5: FIREFIGHTING MEASURES

5.1 **Extinguishing Media**

> Suitable Extinguishing Media For small (incipient) fires, use media such as alcohol foam, dry chemical, or carbon

> > dioxides. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective.

Cool all affected containers with flooding quantities of water.

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. Emits toxic fumes

under fire conditions

Flammable in the presence of a source of ignition when the temperature is above the 5.4 **Further information**

flash point. Keep away from heat/sparks/open flame/hot surfaces

Section 6: **ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective

equipment and emergency procedures **Environment precautions**

adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe area. 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 Specific end use(s)

6.2

6.4

Contain spillage. Sweep up with broom and shovel. Place in a suitable, closed container

for disposal.

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure

HANDLING AND STORAGE Section 7:

Precautions for safe handling Avoid contact with skin and eyes and clothing. Avoid Inhalation of vapor or mist. Keep

away from sources of ignition-No Smoking.

7.2 Keep container tightly closed in a cool, dry and well-ventilated place. Containers which **Conditions for Safe storage**

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are opened must be carefully resealed and kept upright to prevent leakage.

Specific End use(s) Flavorings 7.3

EXPOSURE CONTROLS/PERSONAL PROTECTION Section 8:

8.1 **Control parameters**

Components with workplace control parameters: Contains no substances with occupational exposure limit values

Exposure Controls 8.2

Appropriate Engineering Controls



Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practices. Wash hands immediately after handling the product; 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 situations of anticipated use by our customers. They should not be construed as offering an approval or any specific use scenario.

Eye/face 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).

Skin protection

Wear chemically resistant, Nitrile rubber gloves, 0.2mm, 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 multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a back up 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 governmental 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

Liquid- Clear oily **Appearance** Colorless to pale yellow Faint wine, plum b Odor Odor Threshold No data available C d No data available рH Melting Point /Freezing Point No data available е **Boiling Point** 260oC Flash Point 110°C closed cup

g Flash Point 110°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 No data available
l Vapor density No data available
m Relative density at 25°C 1.136-1.148

n Solubility Very slightly soluble in water Soluble in most organic solvents

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



355 °C Auto-ignition Temp.

Decomposition Temp. No data available q Viscosity No data available Explosive properties No data available s Oxidizing properties No data available

Other Safety Information 9.2 No data available

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity No data available

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

Possibility of Hazardous reactions No data available 10.3 Conditions to avoid 10.4 Heat, Flames, Sparks Incompatible materials Strong oxidizing agents 10.5 Hazardous decomposition products No data available 10.6 Further Information 10.7 No data available

Section 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

LD50-Oral -Rat 5,900 mg/kg

Remarks: Behavioral: Altered sleep time (including changes in righting reflex)

Respirator disorder; Nutritional and Gross Metabolic Changes in body temperature

decrease LC50-Inhalation-Rat 1.300 ma/ka

Remarks: Lungs, Thorax or Respiration: Acute pulmonary edema; Dyspnea

LD50-Dermal -Rabbit >5,000 mg/kg Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ Cell mutagenicity No data available

Carcinogenicity

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.

No data available

No data available

No data available

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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 Specific target organ toxicity-single

exposure (GHS)

Specific target organ toxicity-repeated

exposures (GHS)

Aspiration Hazards No data available

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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: GE8050000

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 No SARA Hazards

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

components

Pennsylvania Right to Know components Triethyl Citrate CAS# 77-93-0 Rev. Date:

New Jersey Right to Know components Triethyl Citrate CAS# 77-93-0 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.

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Safety Data Sheet



Section 16: OTHER INFORMATION

HMIS Rating

Health hazard 0 Chronic Health Hazard Flammability 1 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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