

HEALTH 0 FLAMMABILITY 2 REACTIVITY 0

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name alpha Angelica Lactone, Natural

Product Number **0329300** CAS-No. **591-12-8** 

1.2 Product Recommended Use Flavorings

1.3 Preparation Information

Company Aurochemicals

7 Nicoll Street

Washingtonville, NY 10992- USA

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

# .1 Classification of the substance or mixture

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4), H227

Harmful if swallowed; H302

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 GHS Label Elements, Including precautionary statements

Pictogram

Signal Statement Warning

Hazard Statement(s)
H227
Combustible liquid
H302
Harmful if swallowed

Precautionary Statement(s) P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Immediately call a POISON CENTER or doctor/

physician if you feel unwell

Printed: August 5, 2022

P330 Rinse mouth

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

Synonym 4-Hydroxy-3-pentenoic acid γ-lactone

 $\begin{array}{lll} Formula & C_5H_6O_2 \\ Molecular Weight & 98.10 \text{ g/mol} \\ CAS-No & 591-12-8 \end{array}$ 

**Hazardous Components** 

Component	Classification	Concentration
alpha Angelica lactone		
591-12-8	Flam. Liq. 4; H227; Oral toxicity; H302	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 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 If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

Contact with skin: Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and

warm water.

Contact with eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

Rinse mouth with water.

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 For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon

dioxide. 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.

Printed: August 5, 2022

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: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective 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 areas.

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage. Discharge into the environment must be avoided. Do

not allow to enter drains or sewage system.

6.3 Methods and materials for containment

and clean up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see

section 13).

**Reference to other sections** For disposal see section 13.

#### Section 7: HANDLING AND STORAGE

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

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

up of electrostatic charge.

For precautions see section 2.2.

7.2 **Conditions for Safe storage** Store in cool place. 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

Contains no substances with occupational exposure limit values

## 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 workday.

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

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good

laboratory practices. Wash and dry hands.

Printed: August 5, 2022

Splash contact Material: Nitrile rubber

Minimum layer thickness: 0.4 mm



Break through time: 56 min

Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

sales@kcl.de, test method:EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed

as offering an approval for any specific use scenario.

Printed: August 5, 2022

Body protection Impervious clothing, Flame retardant antistatic protective clothing. The type of protective

equipment must be selected according to the concentration and amount of the

dangerous substance at the specific workplace.

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.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a Appearance Colorless to white to pale yellow to yellow green liquid

b Odor Musk-like

c Odor Threshold No data available
d pH No data available
e Melting Point /Freezing Point No data available
f Initial boiling point and boiling range
g Flash Point 68.3°C closed cup

g Flash Point 68.3°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 @25°C 1.088-1.110

n Soluble in most organic solvents, Insoluble in water

Partition coefficient: No data available 0 g Auto-ignition Temp. No data available Decomposition Temp, No data available q Viscosity No data available Explosive properties No data available s 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

Possibility of Hazardous reactions No data available

Conditions to avoid 10.4 No data available

10.5 Incompatible materials No data available

Hazardous decomposition products Carbon oxides 10.6

10.7 **Further Information** No data available

#### TOXICOLOGICAL INFORMATION Section 11:

#### 11.1 Information on toxicological effects

**Acute Toxicity** 

LD50-Oral (Rat) 3,900 mg/Kg LC50-Inhalation No data available

Skin corrosion/irritation No data available No data available Serious eye damage/eye irritation 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.

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 Teratogenicity No data available No data available

Specific target organ toxicity-single

exposure (GHS)

Specific target organ toxicity-repeated

exposures (GHS) Aspiration Hazards No data available

No data available

Signs and Symptoms of Exposure Gastrointestinal disturbance, Nausea, Headache, Vomiting

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

not been thoroughly investigated

Printed: August 5, 2022

Synergistic effects No data available aurochemicals.com

# **Safety Data Sheet**



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)Not dangerous goodsIMDGNot dangerous goodsIATANot dangerous goods

## Section 15: REGULATORY INFORMATION

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 5-Methylfuran-2(3H)-one CAS# 591-12-8 Rev. Date:

New Jersey Right to Know components 5-Methylfuran-2(3H)-one CAS# 591-12-8 Rev. Date:

California Prop. 65 components

This product does not contain any chemical known to the State of California to cause

cancer, birth defects, or any other reproductive harm.

Printed: August 5, 2022



### Section 16: OTHER INFORMATION

**HMIS Rating** 

Health hazard 0
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.

Issued by:					Contact Person:
Aurochemicals					Deo N. Persaud
7 Nicoll Street				Revised Date:	8/5/2022
Washingtonville, NY 10992 USA					

Printed: August 5, 2022