

# Safety Data Sheet

|              |   |
|--------------|---|
| HEALTH       | 2 |
| FLAMMABILITY | 2 |
| REACTIVITY   | 0 |

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

|                |                                     |
|----------------|-------------------------------------|
| Product Name   | <b>Massoia Lactone 95%, Natural</b> |
| Product Number | <b>0374400</b>                      |
| CAS-No.        | 54814-64-1                          |

### 1.2 Product Recommended Use

**Flavorings**

### 1.3 Preparation Information

|           |   |
|-----------|---|
| Company   | Aurochemicals<br>7 Nicoll Street<br>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  
Skin irritant (Category 2), H315  
Eye irritation (Category 2A), 319  
Specific target organ toxicity-single exposure (Category 3), Respiratory system, H335

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

Warning

Hazard Statement(s)

H315 Causes skin irritation  
H319 Causes eye irritation  
H227 Combustible Liquid  
H335 May cause respiratory irritation  
P210 Keep away from heat/sparks/open flames/ hot surfaces – No Smoking  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P262 Do not get in eyes, on skin, or on clothing  
P304+P315 IF INHALED: Get immediate medical advice/attention  
P305+P351+P338 IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical advice/attention

Precautionary  
Statement(s)

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- P301+P310+P331 IF SWALLOWED: Immediately call a POISON CENTER, or doctor / physician. Do not induce vomiting
- P302+P361+P353 IF ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P337+P313 If eye irritation persists: Get medical advice/attention
- P363 Take off contaminated clothing and wash before reuse.
- P403 Store in a well ventilated place. Keep container tightly closed
- P405 Store locked up.
- 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

|                  |  |
|------------------|--|
| Synonyms         | 5-Hydroxy-2-Deconic Acid- $\delta$ Lactone |
| Formula          | $C_{10}H_{16}O_2$                          |
| Molecular Weight | 168.24 g/mol                               |
| CAS-No           | 54814-64-1                                 |
| EC-No.           | 247-074-2                                  |

No ingredients are hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations

### Section 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

|                         |   |
|-------------------------|---|
| Inhalation              | Provide fresh air; keep at rest and at a comfortable position to breathe. Contact a physician.  |
| Contact with skin:      | Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. If irritation or other symptoms occur, contact a physician.                         |
| Contact with eyes:      | Rinse thoroughly with plenty of water for at least 15 as a precaution. Contact a physician.   |
| Ingestion               | DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a physician or poison control center immediately. Do not induce vomiting. |
| 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 chemical or carbon dioxide<br>Cool unopened containers with water spray from a safe distance. |
|------------------------------|--|

#### 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. Combustible liquid. Avoid heat, sparks and open flames. No smoking.

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## Section 6: ACCIDENTAL RELEASE MEASURES

- |  |   |
|--|---|
| 6.1 <b>Personal precautions, protective equipment and emergency procedures</b> | Use personal protective equipment. Avoid breathing vapors, mist or gas. Avoid contact with skin and eyes and clothing. Ensure adequate ventilation. Evacuate personnel to safe area. Remove any source of ignition. |
| 6.2 <b>Environment precautions</b>   | Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.  |
| 6.3 <b>Methods and materials for containment and clean up</b>                  | Contain spillage. Soak up with absorbent material. Sweep up with broom and shovel. Place in a suitable, closed container for disposal.  |
| 6.4 <b>Specific end use(s)</b>   | Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.  |

## Section 7: HANDLING AND STORAGE

- |  |   |
|--|---|
| 7.1 <b>Precautions for safe handling</b> | Avoid breathing vapors. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated exposure. Wash hands thoroughly after handling.                     |
| 7.2 <b>Conditions for Safe storage</b>   | Keep container tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |
| 7.3 <b>Specific End use(s)</b>           | Flavorings  |

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- |                                   |   |
|-----------------------------------|---|
| 8.1 <b>Control parameters</b>     | <b>Components with workplace control parameters:</b> Contains no substances with occupational exposure limits   |
| Appropriate Engineering Controls  | Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the day. Ensure adequate ventilation is in place.  |
| Personal protective equipment     | <b>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.</b>              |
| 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 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            | Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. 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                             | Clear pale yellow liquid                       |
| b | Odor                                   | Butter, coconut-like                           |
| c | Odor Threshold                         | No data available                              |
| d | pH                                     | No data available                              |
| e | Melting Point /Freezing Point          | No data available                              |
| f | Boiling Point                          | 112°C  |
| g | Flash Point                            | 93°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                         | 0.1 mmHg at 20°C                               |
| l | Vapor density                          | 5.8 (Air = 1.0)                                |
| m | Relative density at 25°C               | 0.947-0.987                                    |
| n | Solubility                             | Insoluble in water, Soluble in alcohol and fat |
| o | Partition coefficient: n-octanol/water | No data available                              |
| p | Auto-ignition Temp.                    | No data available                              |
| 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                | Excessive heat, open flames, or other sources of ignition. |
| 10.5 | Incompatible materials             | Strong acids, Alkalies and or oxidizing agents             |
| 10.6 | Hazardous decomposition products   | No data available  |
| 10.7 | Further Information                | No data available  |

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

|                                   |   |
|-----------------------------------|---|
| Skin corrosion/irritation         | 100% irritant (FHSA)<br>6% irritant (HRIPT) |
| Serious eye damage/eye irritation | No data available                           |
| 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

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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          |
| Teratogenicity  | No data available          |
| Specific target organ toxicity-single exposure (GHS)    | Respiratory Tract Irritant |
| Specific target organ toxicity-repeated exposures (GHS) | No data available          |
| Aspiration Hazards                                      | No data available          |

Signs and Symptoms of Exposure **May be harmful if inhaled, swallowed or absorbed through the skin. Headache, irritation, nausea or drowsiness may occur.**

|                              |  |
|------------------------------|--|
| Synergistic effect<br>RTECS: | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated |
|                              | No data available  |
|                              | 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 goods (Usual precautions for combustible liquids) |
| IMDG     | Not dangerous goods   |
| IATA     | 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 not require a registration or the registration is envisaged for a later registration deadline. |
|-----------|---|

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|  |   |                |            |
|--|---|----------------|------------|
| 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 data available   |                |            |
| Pennsylvania Right to Know components  | No data available   |                |            |
| New Jersey Right to Know components    | No data available   | CAS# 2721-22-4 | 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

### 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.

| Issued by:                    | Contact Person: |
|-------------------------------|-----------------|
| Aurochemicals                 | Deo N. Persaud  |
| 7 Nicoll Street               | 8/15/2022       |
| Washingtonville, NY 10992 USA |                 |