

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Massoia Lactone 98%, Natural
Product Number	0374400
CAS-No.	54814-64-1

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
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

Precautionary Statement(s)

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

- 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- δ 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
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.

Section 6: ACCIDENTAL RELEASE MEASURES

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| 6.1 | Personal precautions, protective equipment and emergency procedures | 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 | 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

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|-----|--------------------------------------|---|
| 7.1 | Precautions for safe handling | Avoid breathing vapors. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated exposure. Wash hands thoroughly after handling. |
| 7.2 | Conditions for Safe storage | 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 | Specific End use(s) | Flavorings |

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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|-----|--|---|
| 8.1 | Control parameters | |
| | Components with workplace control parameters: | 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 | 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 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) 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

	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	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
RTECS:	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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Safety Data Sheet

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.

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