

HEALTH	1
FLAMMABILITY	0
REACTIVITY	1

### Section 1: IDENTIFICATION

Product Name:	<b>Gamma Nonalactone, Natural</b>
Product Number:	<b>0278100</b>
Recommended Use:	Flavorings
Manufacturer:	Aurochemicals, 7 Nicoll Street, Washingtonville, NY 10992
Emergency Telephone No.:	1-800-535-5053 (International 1-352-323-3500 collect)

### Section 2: HAZARD(S) IDENTIFICATION

Emergency Overview	
OSHA Hazards	No known OSHA hazards
GHS Classifications	Not a hazardous substance or mixture
GHS Label elements, including precautionary statements	
Pictogram	None
Signal Word	None
Hazard Statement(s)	None
Precautionary Statement	None
HMIS Classification	Health Hazard 0 Flammability 1 Physical Hazard 0

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Gamma Nonalactone
Common Name:	Gamma Nonalactone
Synonyms:	<b>Aldehyde C-18</b> ; $\gamma$ -Nonanoic lactone
CAS #	104-61-0
EC#	203-219-1
Molecular Formula	C <sub>9</sub> H <sub>16</sub> O <sub>2</sub>
<i>No ingredients are hazardous according to OSHA criteria</i>	

### Section 4: FIRST AID MEASURES

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance
Contact with eyes:	Rinse thoroughly with plenty of water and seek medical advice.
Contact with skin:	Rinse with first cool water; then wash with mild soap and warm water. Seek medical advice
Inhalation:	Provide fresh air
Ingestion:	Never give anything by mouth to an unconscious person. Administer water, rinse out mouth, seek medical advice, show this container or label to attending physician
Clothing:	Remove contaminated clothing and wash before re-use

## Section 5: FIREFIGHTING MEASURES

Conditions of flammability	Combustible. Vapors heavier than air. Forms explosive mixtures with air at ambient temperature.
Suitable extinguishing media	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. Contain escaping vapors with water. Keep away from sources of ignition
Special protective equipment for firefighters	Wear self contained breathing apparatus for firefighting if necessary.
Hazardous combustion products	Development of hazardous combustion gases or vapors possible in the event of a fire. Formed under fire conditions – Carbon Oxides

## Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas.
Environmental precautions	Do not allow to enter drains, sewage system or ground waters.
Methods and materials for containment/cleanup	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed container for disposal
Ventilation	After sweep up, wash area and ventilate area well

## Section 7: HANDLING AND STORAGE

Conditions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Take precautionary measures against static discharges. Keep away from sources of ignition. Do not eat or drink while handling this product – No smoking
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be kept upright to prevent leakage

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Contains no substances with occupational exposure limit values Avoid contact with eyes, skin, clothing and breathing of vapor.
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>  Protective clothing 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
Ventilation:	Local exhaust preferred –Fume Hoods/Extractors. General ventilation required
Respiratory Protection:	Required when vapors / aerosols are generated
Eye Protection:	Wear eye and face protection – Face Shield
Hand Protection:	Wear chemically resistant gloves. Use proper removal technique to avoid skin contact with this product.
Industrial Hygiene:	Handle in accordance with good industrial hygiene and safety practice. Wash hands after working with product

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Colorless to pale yellow
Odor:	Coconut
Melting Point / Freezing Point:	No data available
Boiling Point:	121-122°C
Flash Point:	110°C
Ignition temperature:	No data available
Auto Ignition:	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure:	No data available
Specific Gravity @ 20°C:	0.950-0.966
Solubility:	Soluble in alcohol, most fixed oils, propylene glycol, insoluble in water 1:1 in 60% alcohol

## Section 10: STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions
Possible hazardous reactions:	No data available
Conditions to avoid:	No data available
Materials to avoid:	Strong oxidizing agents, strong bases
Hazardous decomposition products	Formed under fire conditions – Carbon Oxides
Other decomposition products	No data available

## Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity	
LD50, Oral -Rat	6,600 mg/kg
LC50 Inhalation	No data available
LD50 Dermal - Rabbit	>5,000 mg/kg
Other information on acute toxicity	No data available
Skin corrosion/irritation	Rabbit: Mild skin irritation -24 h
Serious eye damage/irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	
	IARC No component of this product present at 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 0.15 is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available

# Safety Data Sheet

Teratogenicity	No data available
Specific target organ toxicity- Single Exposure (GHS)	No data available
Specific target organ toxicity-Repeated Exposure (GHS)	No data available
Aspiration hazard	No data available
Potential health effects	
	Inhalation May be harmful if inhaled. May cause respiratory tract irritation
	Ingestion May be harmful if swallowed
	Skin May be harmful if absorbed through skin. May cause skin irritation
	Eyes May cause eye irritation
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	LU3675000

## Section 12: ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB assessment	No data available
Other adverse effects	No data available
Further ecological data	Do not allow to enter water, drain or soil

## Section 13: DISPOSAL CONSIDERATIONS

Product:	According to local regulations
Packaging:	According to local regulations

## Section 14: TRANSPORT INFORMATION

UN-no. / Name	Not dangerous goods
IMDG-Classification	Not dangerous goods
IATA-Classification	Not dangerous goods
ADR-Classification	Not dangerous goods

## Section 15: REGULATORY INFORMATION

OSHA Hazards	No known OSHA hazards
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 Components	No components are subject to the Massachusetts Right to Know Act

# Safety Data Sheet

Pennsylvania Right to Know Components      Nonan-4-olide      CAS# 104-61-0      Rev. Date:

New Jersey Right to Know Components      Nonan-4-olide      CAS# 104-61-0      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

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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