

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name:	Gamma Valerolactone, Natural
Product Number:	0310300
CAS No.:	108-29-2
Recommended Use:	Flavorings
Manufacturer:	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992 – USA 845-496-6065 845-492-6248 Fax
Emergency Telephone No.:	1-800-535-5053 (International 1-352-323-3500 collect)

Section 2: HAZARD(S) IDENTIFICATION

OSHA Hazards	No Known OSHA Hazards
GHS Classification	Not a hazardous substance or mixture
GHS Label elements, including precautionary statements	None
Pictogram	None
Signal Word:	None
Hazard Statement:	None
Precautionary Statement	None
HMIS Classification	Health Hazard 0 Flammability 1 Physical Hazards 0

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	Gamma Valerolactone Nat	Concentration 100%
Chemical Name	Gamma Valerolactone	
Common Name:	Gamma Valerolactone	
Synonyms:	y-Menthyl-y-butyrolactone; 4,5 Dihydro-5-methyl-2(3H)-furanone 4-Hydroxypentanoic acid lactone	
CAS #	108-29-2	
EC#	203-569-5	

Safety Data Sheet

Molecular Weight 100.12 g/mol
 Molecular Formula $C_5H_8O_2$
 No ingredients are hazardous according to OSHA Criteria.

Section 4: FIRST AID MEASURES

General Advise: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Contact with eyes: Remove contact lenses if present and easy to do. Rinse thoroughly with plenty of water for at least 15 minutes seek medical attention.

Contact with skin: Remove contaminated clothing. Rinse skin with cool water then wash with plenty of mild soap and warm water. Apply skin emollient. Consult a physician.

Inhalation: Provide fresh air, Consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water, seek medical advice, show this container or label to attending physician.

Clothing contamination: Wash contaminated clothing before re-use.

Section 5: FIREFIGHTING MEASURES

Conditions of Flammability Not flammable or combustible.

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters Wear self contained breathing apparatus for firefighting if necessary.

Other Information Hazardous decomposition products formed under fire conditions – Carbon oxides.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental-protected measures
 Procedures for cleaning / absorption Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Ventilate area After sweep up, wash area and ventilate area well.

Section 7: HANDLING AND STORAGE

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

Conditions for safe storage Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Ground all equipment containing material. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Contains no substances with occupational exposure limit values.
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.
Body Protection:	Complete suit 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 respirators are appropriate the respirator should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. Use respirators and components tested and approved under appropriate government standards such as NIOSH.
Eye Protection:	Wear safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Hand Protection:	Wear chemically resistant Nitrile rubber gloves and wash and dry hands after handling this product.
Industrial Hygiene:	Avoid contact with skin, eyes, and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. Wash hands after working with product

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Colorless to slightly yellow
Odor:	Sweet, herbaceous
Boiling Point:	207°C
Flashpoint:	81°C
Melting Point	-31°C
Ignition temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure:	No data available
Specific Gravity @ 25°C:	1.047-1.054
Solubility	Soluble in alcohol and fixed oils, Slightly soluble in water

Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous reactions	No data available
Conditions to avoid	Heat, ignition sources (flames and sparks), incompatible materials and moisture
Materials to avoid	Oxidizing agents, Reducing agents, Acids
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions-Carbon oxides.

Section 11: TOXICOLOGICAL INFORMATION

Toxicity to Animals	
LD50, Oral Toxicity Rat	8,800 mg/kg Remarks: Behavioral: General anesthetic; muscle weakness. Lungs, Thorax, or Respiration: Respiratory stimulation
LD50 Acute Dermal Toxicity –Rabbit	>5000 mg/kg
Skin corrosion/irritation	Rabbit: Mild skin irritation – 24 hr
Serious eye damage/eye irritation	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 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
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
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
Synergistic effects	No data available
RTECS	LU3580000

Section 12: ECOLOGICAL INFORMATION

Toxicity	No data available
Other adverse effects	No data available

Section 13: DISPOSAL CONSIDERATIONS

Safety Data Sheet

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

Section 14: TRANSPORT INFORMATION

DOT (US) Not dangerous goods
IMDG Not dangerous goods
IATA Not dangerous goods

Section 15: REGULATORY INFORMATION

OSHA Hazards No known OSHA hazards

SARA 302 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

Pennsylvania Right to Know Components γ -Valerolactone CAS # 108-29-2 Rev. Date:

New Jersey Right to Know Components γ -Valerolactone CAS # 108-29-2 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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