



Section 1. Product and Company Identification

**Product Name**      Gamma-Valerolactone  
**CAS Number**        108-29-2

**Parchem - fine & specialty chemicals**  
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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**  
Not classified as a hazardous substance or mixture

**GHS Label Elements**  
**Pictograms:** N/A  
**Signal word:** N/A

**Hazard and precautionary statements**  
None

**Hazards not otherwise classified (HNOC) or not covered by GHS:** None

Section 3. Composition / Information on Ingredients

**Common Name**      Gamma-Valerolactone  
**CAS Number**        108-29-2

COMPONENT	CAS NUMBER	CONCENTRATION
Gamma-Valerolactone	108-29-2	99%

Section 4. First Aid Measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.  
**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.  
**Skin contact:** Wash off with soap and plenty of water. Consult a physician.  
**Eye contact:** Flush eyes with water as a precaution.  
**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.



**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling and/or in section 11.

**Indication of any immediate medical attention and special treatment needed:** No data available

#### Section 5. Firefighting Measures

##### **Extinguishing media**

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

**Special hazards arising from the substance or mixture:** Carbon oxides

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** No data available

#### Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

**Environmental precautions:** Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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

#### Section 7. Handling and Storage

**Precautions for safe handling:** For precautions see section 2.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Combustible liquids

#### Section 8. Exposure Controls / Personal Protection

##### **Control parameters**

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

##### **Exposure controls**

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.



### Personal protective equipment

**Eye/face protection:** Safety glasses with side-shields conforming to EN166 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.

**Body Protection:** Impervious 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:** Do not let product enter drains.

### Section 9. Physical and Chemical Properties

**Form:** Colorless to pale yellow liquid

**Melting point:** -31°C (-24°F) - lit.

**Boiling point:** 82 - 85°C (180 - 185°F) at 13 hPa (10 mmHg) - lit.

**Flash point (Closed Cup):** 96°C (205°F)

**Density:** 1.05 g/cm<sup>3</sup> at 25°C (77°F)

### Section 10. Stability and Reactivity

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** No data available

**Conditions to avoid:** No data available

**Incompatible materials:** Strong oxidizing agents

### Hazardous decomposition products

**Other decomposition products:** No data available

In the event of fire: see section 5

### Section 11. Toxicological Information

#### Information on toxicological effects

##### Acute toxicity

**LD50 Oral - Rat:** 8,800 mg/kg

Remarks: Behavioral: General anesthetic. Behavioral: Muscle weakness. Lungs, Thorax, or Respiration: Respiratory stimulation.



**Inhalation:** No data available  
**LD50 Dermal - Rabbit:** > 5,000 mg/kg

**Skin corrosion/irritation**  
Skin - Rabbit  
Result: Mild skin irritation - 24 h

**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 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 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** No data available  
**Specific target organ toxicity - single exposure:** No data available  
**Specific target organ toxicity - repeated exposure:** No data available  
**Aspiration hazard:** No data available

#### **Additional Information**

**RTECS:** LU3580000  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12. Ecological Information
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**Toxicity:** No data available  
**Persistence and degradability:** No data available  
**Bioaccumulative potential:** No data available  
**Mobility in soil:** No data available  
**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted  
**Other adverse effects:** No data available



Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not 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 Components:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know Components**

γ-Valerolactone (CAS-No. 108-29-2)

**New Jersey Right to Know Components**

γ-Valerolactone (CAS-No. 108-29-2)

**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.

**HMIS Rating**

**Health:** 0

**Flammability:** 1

**Reactivity:** 0

**NFPA Rating**

**Health:** 0

**Flammability:** 1

**Reactivity:** 0



Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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