



SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name:

delta-Gluconlactone

Product Code: G01900

- Supplier:Pfaltz & Bauer, Inc.172 E. Aurora StreetWaterbury, CT 06708 USA
- <u>Phone:</u> 203-574-0075
- FAX: 203-574-3181
- Emergency Phone:INFOTRAC, US: 1-800-535-5053INFOTRAC, INTERNATIONAL: +1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Statement of Hazard: Irritant, Respiratory irritant

<u>Acute Health Hazard:</u> Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, skin absorption and inhalation.

Chronic Health Hazard: Not Available

HMIS Rating: H: 1 F: 0 P: 0

NFPA Rating: H: 1 F: 0 R: 0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

<u>GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):</u> <u>GHS Classification in accordance with Regulation (EC) No 1272/2008:</u>

Acute toxicity, dermal (Category 4), H312 Acute toxicity, inhalation (Category 4), H332 Acute toxicity, oral (Category 4), H302 Serious eye damage/eye irritation (Category 2A), H319 Skin corrosion/irritation (Category 2), H315 Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335

Pictogram:

Signal Word:	Warning
<u>Hazard Statement(s):</u>	H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation.
Precautionary Statement(s):	 P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell. P302+P352 IF ON SKIN: wash with plenty of soap and water. P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 IF SKIN irritation occurs: Get medical advice/attention.

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name:	delta-Gluconlactone
<u>Synonyms:</u>	D-(+)-Gluconic acid-delta-lactone; D-(+)-Glucono-1,5-lactone; D-(+)- Glucono-delta-lactone; Gluconic acid lactone
CAS Number:	90-80-2
MDL Number:	MFCD00006647
EINECS Number:	202-016-5
Beilstein Registry Number:	83286
Molecular Formula:	C6H10O6
<u>Molecular Weight:</u>	178.14
Content:	As specified in product name.

SECTION 4: FIRST AID MEASURES

Eye Contact:	Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.
Skin Contact:	Wash skin with soap and water. If irritation persists, seek medical attention.
Ingestion:	Do not induce vomiting. Seek medical attention.
Inhalation:	Move to a fresh air environment. Contact a physician if breathing becomes difficult.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point (°C):	Not Available	
Explosion Limits:	Lower, % by volume:	Not Available
	Upper, % by volume:	27.5
<u>Auto Ignition</u> Temperature (°C):	Not Available	
Extinguishing Media:	Carbon dioxide, dry chemical powder, alcohol-resistant foam, or water spray	
Protective Equipment:	Wear self-contained respirator and fully protective impervious suit.	
Specific Hazards:	May emit hazardous fumes under fire conditions.	

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection:	Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and contact proper authorities if needed. Keep unprotected persons away.
Environmental Protection:	Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING and STORAGE

Handling and Storage:	Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away. Store in a tightly closed container in a dry, well-ventilated place.
Sensitivities:	Not Available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	lab equipmen	nt while hand	ling this produ	under a fume hood. Use proper uct. Keep away from of hazardous reaction.
Eye Protection:		•	, .	r chemical safety goggles. Make I your vicinity.
Skin Protection:	Wear impervi	ious gloves a	nd protective	clothing.
Respiratory Protection:		••	spirator when coms are expe	exposure limits are exceeded or prienced.
Exposure Limits:	<u>Country</u>	<u>Source</u>	Туре	Value
	USA	ACGIH	TWA	Not Available
	USA	OSHA	STEL	Not Available
	USA	OSHA	PEL	Not Available

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

<u>Appearance:</u>	White crystalline powder
Odor:	Not Available
Odor Threshold:	Not Available
<u>Flash Point (°C):</u>	Not Available
<u>Auto Ignition</u> Temperature (°C):	Not Available
UEL % by Volume:	27.5
LEL % by Volume:	Not Available
Melting Point (°C):	160
Boiling Point (°C):	Not Available
Evaporation Rate:	Not Available
<u>pH Value:</u>	Not Available

<u>Density (g/cm³):</u>	Not Available
Refractive Index (n ²⁰ D):	Not Available
<u>Viscosity:</u>	Not Available
Solubility in Water:	Not Available
Solubility in Other:	Not Available
<u>Vapor Pressure (mmHg):</u>	Not Available
<u>Vapor Density (Air=1):</u>	Not Available

SECTION 10: STABILITY and REACTIVITY

Stability:	Stable under normal temperatures and pressures.
Incompatibility:	Strong oxidizing agents, Strong bases
Reactivity:	Product may react with incompatible materials to release other hazardous substances.
Conditions to Avoid:	Heat, flame, sparks, other ignition sources.
<u>Hazardous</u> Decomposition Products:	Carbon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Reference:	LZ5184000
Target Organs:	Not Available
Toxicity Data:	Not Available
Carcinogenicity:	National Toxicology Program (NTP) listed: Not Available
	International Agency for Research on Cancer (IARC) listed: Not Available

Potential Symptoms: Not Available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Not D.O.T.-Regulated

IMDG Shipping Name: Not Regulated

Marine Pollutant: No

IATA Shipping Name: Not Regulated

SECTION 15: REGULATORY INFORMATION

United States

Toxic Substance Control Act (TSCA) listed: Yes

Superfund Amendments and Reauthorization Act (SARA 302) listed: No

Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No

Superfund Amendments and Reauthorization Act (SARA 313) listed: No

European Union

European Inventory of Existing Chemical Substances (EINECS): 202-016-5

GHS Classification in accordance with Regulation (EC) No 1272/2008: Yes

<u>Canada</u>

Canadian Domestic Substances List (DSL) listed: Yes

Canadian Non-Domestic Substances List (NDSL) listed: No

SECTION 16: OTHER INFORMATION

Date Prepared: 6/21/2023

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgement to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.