

Material Safety Data Sheet

Glucono-Delta-Lactone

Section 1: Chemical Product and Company Identification

Product Name: Glucono-Delta-Lactone

Chemical Name:

CAS No.: 90-80-2

EINECS No.: 202-016-5

Customs Tariff No. : 29322900

Synonym Name:

Chemical Formula: C₆H₁₀O₅

Contact Information:

Chemtrade International

Rm. 201, Unit 3, Building 8, Shijia Garden, No. 93,
Xiangjiang Road, Qingdao Development Zone,
Qingdao, Shandong, China 266555

International Sales:

Tel: 0086-532-86893005

Fax: 0086-532-86893005

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS No.	EINECS No.	by weight%
Glucono-Delta-Lactone	90-80-2	202-016-5	99.0

Section 3: Hazards Identification

Moisture sensitive: Light

Potential Health Effect:

Eye: May cause eye irritation

Skin: May cause skin irritation

Ingestion: May cause irritation of the digestive tract

Inhalation: May cause respiratory tract irritation.

Chronic: Not available.

Section 4: First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lift the upper and lower eyelids. Get medical aid.

Skin: Get medical aid, Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Don't induce vomiting, if conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, Give artificial respiration. If breathing is difficult, give oxygen, Notes to Physician.

Section 5: Fire and Explosion Data

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Section 6: Accidental Release Measures

General Information: Use proper personal protective equipment as Indicated In Section 8

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Keep container closed when not in use.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment:

Eyes: Wear safety glasses and chemical goggles if splashing is possible

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize Contact with skin.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-face piece airline respirator in the positive pressure mode with emergency escape provisions.

Section 9: Physical and Chemical Properties

Physical State: Powder

Appearance: white to off-white

Odor: Not available

PH: Not available

Vapor Pressure: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: 151.00-155.00 deg C

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits, lower: Not available

Explosion Limits, upper: Not available

Decomposition Temperature: 153°C

Solubility in water: 59 g/100 ml water

Specific Gravity/Density: 1.3g/cm³

Molecular Formula: C₆H₁₀O₆

Molecular Weight: 178.14

Section 10: Stability and Reactivity Data

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, light, exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizing agents, strong bases.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11: Toxicological Information

RTECS#: CAS# 90-80-2: LZ5184000

LD50/LC50: Not available.

Carcinogenicity: GLUCONO DELTA LACTONE-Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

Section 12: Ecological Information

No Information

Section 13: Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14: Transport Information

IATA: Not regulated as a hazardous material.

IMO: Not regulated as a hazardous material.

RID/ADR: Not regulated as a hazardous material.

Section 15: Other Regulatory Information

European/International Regulations: European labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases: Not available

Safety Phrases: S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 90-80-2:0

United Kingdom Occupational Exposure Limits

Section 16: Other Information

The information above is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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