



Material Safety Data Sheet

D-Glucuronolactone MSDS

1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: [D-Glucuronolactone](#)
- 1.2. Description: D-Glucuronolactone is a natural organic compound manufactured through chemical synthesis.
- 1.3. Chemical Formula: C₆H₈O₆
- 1.4. Molecular weight: 176.12
- 1.5. CAS #: 32449-92-6
- 1.6. EINECS #: 251-053-3
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as nutritional supplements

2. Composition

- 2.1. D-Glucuronolactone: >98.5%
- 2.2. Hazardous impurities: Heavy metals 10 ppm max, Residue on ignition 0.1% max

3. Physical/Chemical Characteristics

- 3.1. Physical State: Powder
- 3.2. Appearance: White crystalline powder
- 3.3. Odor: Odorless.
- 3.4. pH: Not available
- 3.5. Melting point/range: 172 ° C (341.6 ° F) - 175 C
- 3.6. Boiling point: 385 ° C
- 3.7. Bulk density: 1.76 g/cm³
- 3.8. Solubility: Soluble in cold water, hot water

4. Stability/Reactivity

- 4.1. Chemical Stability: Stable under normal temperatures and pressures
- 4.2. Shelf Life: 24 months period
- 4.3. Hazardous decomposition: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, acrid smoke and fumes
- 4.4. Hazardous polymerization: Will not occur
- 4.5. Incompatible with: Oxidizing agents.

5. Handling/Storage

- 5.1. Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.
- 5.2. Handling precaution: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

6. Exposure Control

- 6.1. Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.
- 6.2. Respiratory protection: NIOSH/MSHA or European Standard EN 149 approved respirator
- 6.3. Eye Protection: Protective eyeglasses or chemical safety goggles
- 6.4. Skin Protection: Wear appropriate protective gloves and clothes to minimize skin contact.
- 6.5. Other: Consult professionals if D-Glucuronolactone need to be handled under some special conditions.



7. Hazards Identification

- 7.1. Hazardous overview: D-Glucuronolactone is Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
- 7.2. Contact with eyes: May cause eye irritation.
- 7.3. Contact with skin: May cause skin irritation.
- 7.4. Ingestion: May irritate the tissues of the mouth, esophagus, and other tissues of the digestive system
- 7.5. Inhalation: May cause irritation to the respiratory tract and gastrointestinal
- 7.6. Other: Not Applicable

8. First Aid Measures

- 8.1. Contact with eyes: Flush immediately with plenty of water for 15 minutes and seek medical advice
- 8.2. Contact with skin: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
- 8.3. Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
- 8.4. Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

9. Fire and Explosion Data

- 9.1. General information: May be combustible at high temperature.
- 9.2. Flash point: Not available
- 9.3. Ignition control: Avoid Daidzein ignition sources D-Glucuronolactone powder might be generated.
- 9.4. Dust control: Keep the handling area with adequate ventilation
- 9.5. Extinguishing Media: Water spray, dry chemical or carbon dioxide. Wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
- 9.6. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions.

10. Transport Information

- 10.1. No special requirements and no restrictions on transportation by land, sea or air.

11. Ecological Information

- 11.1. D-Glucuronolactone is fully degradation biodegradable. The product itself and its products of degradation are not toxic.

12. Other Information

- 12.1. This Safety Data Sheet of D-Glucuronolactone is based upon a limited review of Foodchem International Corporation files and standard Toxicological handbooks. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Foodchem International Corporation be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Foodchem International Corporation has been advised of the possibility of such damages.

Website: <http://www.foodchemadditives.com>

E-Mail: inquiry@foodchem.cn
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