

BI-10773 (Empagliflozin) SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** BI-10773 (Empagliflozin)
- **Catalog Number:** S8022
- **CAS Number:** 864070-44-0
- **IUPAC Name:** D-Glucitol, 1,5-anhydro-1-C-[4-chloro-3-[[4-[[[(3S)-tetrahydro-3-furanyl]oxy]phenyl]methyl]phenyl]-, (1S)-

Relevant identified uses and uses advised against

- **Identified uses:** For research and development use only; laboratory chemicals; manufacture of substances.
- **Uses advised against:** Not for pharmaceutical, household, or other unapproved uses.

Details of the supplier

- **Company :** Selleck Chemicals
- **TollFree :** +1 877 796-6397
- **Tel :** +1 832 582-8158
- **Fax :** +1 832 582-8590

Emergency telephone number

- **Emergency phone #:** +1 832 582-8158

2. HAZARDS IDENTIFICATION

GHS Classification:

Not a hazardous substance or mixture in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label Elements:

No hazard pictogram, signal word, hazard statement(s), or precautionary statement(s) are required.

Other Hazards:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Chemical Name: D-Glucitol, 1,5-anhydro-1-C-[4-chloro-3-[[4-[[[(3S)-tetrahydro-3-furanyl]oxy]phenyl]methyl]phenyl]-, (1S)-

Components: No hazardous ingredients.

4. FIRST AID MEASURES

If Inhaled: Move person to fresh air.

In Case of Skin Contact: Take off all contaminated clothing immediately. Rinse skin with water or shower.

In Case of Eye Contact: Rinse out with plenty of water. Remove contact lenses.

If Swallowed: Have the victim drink water (maximum of two glasses). Consult a physician if feeling unwell.

Most Important Symptoms and Effects: The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11.

Protection of First-Aiders: Refer to section 8 for personal protection.

Notes to Physician: N/A.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water, Foam, Carbon dioxide (CO₂), Dry powder.

Unsuitable Extinguishing Media: No limitations of extinguishing agents are given for this substance.

Specific Hazards: Combustible. Hazardous combustion gases or vapors (Carbon oxides, Hydrogen chloride gas) may be produced in the event of a fire.

Specific Extinguishing Methods: N/A.

Further Information: Use water spray jet to knock down gases/vapors/mists. Prevent fire extinguishing water from contaminating surface water or ground water systems.

Special Protective Equipment: Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:

Advice for non-emergency personnel: Avoid inhalation of powder. Evacuate the danger area, observe emergency procedures, and consult an expert. For emergency responders, see section 8.

Environmental Precautions: Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of powder.

7. HANDLING AND STORAGE

Precautions for Safe Handling: For precautions see section 2.2.

Conditions for Safe Storage: Keep container tightly closed in a dry place.

Storage Class: 11, Combustible powder.

Recommended Storage Temperature: -13 to 14 °F / -25 to -10 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Contains no substances with occupational exposure limit values.

Engineering Measures: N/A.

Personal Protective Equipment:

- **Respiratory Protection:** Required when powder is generated. Recommended filter type P1 (based on DIN EN 143, DIN 14387).

- **Hand Protection:** Handle with impervious nitrile rubber gloves. Full and splash contact: Minimum layer thickness 0.11 mm, break through time 480 min (e.g., KCL 741 Dermatrill-L).

- **Eye Protection:** Use safety glasses tested and approved under standards such as NIOSH (US) or EN 166 (EU).

- **Hygiene Measures:** Change contaminated clothing. Wash hands after working with the substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: powder

Color: white

Odor: N/A

Odor Threshold: N/A

pH: N/A

Melting Point: N/A

Boiling Point: N/A

Flash Point: Not applicable

Evaporation Rate: N/A

Flammability (powder, gas): N/A

Upper/Lower Explosion Limit: N/A

Vapor Pressure: N/A

Relative Vapor Density: N/A

Relative Density: N/A

Density: N/A

Solubility: Soluble in water (68 °F / 20 °C)

Partition Coefficient (n-octanol/water): N/A

Auto-ignition Temperature: N/A

Decomposition Temperature: N/A

Viscosity: N/A

Explosive Properties: Not classified as explosive

Oxidizing Properties: None

Molecular Weight: 450.91 g/mol

10. STABILITY AND REACTIVITY

Reactivity: Flammable organic substances in fine distribution may generally assume a powder explosion potential when whirled up.

Chemical Stability: Chemically stable under standard ambient conditions (room temperature).

Possibility of Hazardous Reactions: Violent reactions possible with strong oxidizing agents.

Conditions to Avoid: No information available.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: In the event of fire, see section 5.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

- Acute toxicity estimate Oral: 2,500 mg/kg (Calculation method).
- LD50 Oral (Rat): > 2,000 mg/kg.
- LD50 Intravenous (Rat): > 300 mg/kg.
- Inhalation/Dermal: N/A.

Skin Corrosion/Irritation: N/A.

Serious Eye Damage/Irritation: N/A.

Respiratory or Skin Sensitization: N/A.

Germ Cell Mutagenicity: Negative (In vivo micronucleus test, Rat, Bone marrow).

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC, NTP, or OSHA.

Reproductive Toxicity: N/A.

STOT - Single Exposure: N/A.

STOT - Repeated Exposure: N/A.

Aspiration Hazard: N/A.

Additional Information: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity: N/A.

Persistence and Degradability: N/A.

Bioaccumulative Potential: N/A.

Mobility in Soil: N/A.

Other Adverse Effects: This product does not contain and was not manufactured with Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. Do not mix with other waste. Handle uncleaned

containers as the product itself.

14. TRANSPORT INFORMATION

DOT (49 CFR): Not regulated as a dangerous good.

IMDG: Not regulated as a dangerous good.

IATA: Not regulated as a dangerous good.

Transport in Bulk: Not applicable for product as supplied.

Poison Inhalation Hazard: No.

Special Precautions: Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 313

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.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

16. OTHER INFORMATION

Revision Date: 2026/07/08

Further Information: The information provided is believed to be correct but is not exhaustive and should be used only as a guideline based on current knowledge. It does not represent a guarantee of the properties of the product. Selleck Chemicals Corporation and its Affiliates shall not be held liable for any damage resulting from handling or contact with the product.