

Dapagliflozin (BMS-512148) SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Dapagliflozin (BMS-512148)
- **Catalog Number:** S1548
- **CAS Number:** 461432-26-8
- **IUPAC Name:**
(2S,3R,4R,5S,6R)-2-(3-(4-ethoxybenzyl)-4-chlorophenyl)-6-(hydroxymethyl)-tetrahydro-2H-pyran-3,4,5-triol

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 in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

- Acute toxicity (Oral): Category 4
- Eye irritation: Category 2A
- Reproductive toxicity: Category 1B
- Effects on or via lactation
- Specific target organ toxicity - repeated exposure: Category 1 (Kidney)
- Long-term (chronic) aquatic hazard: Category 2

Pictogram:



Signal word: Danger

Hazard statements:

- H302: Harmful if swallowed.
- H319: Causes serious eye irritation.
- H360: May damage fertility or the unborn child.
- H362: May cause harm to breast-fed children.
- H372: Causes damage to organs (Kidney) through prolonged or repeated exposure.
- H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P260: Do not breathe powder.
- P263: Avoid contact during pregnancy and while nursing.
- P264: Wash skin thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

- P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313: IF exposed or concerned: Get medical advice/ attention.
- P337 + P313: If eye irritation persists: Get medical advice/ attention.
- P391: Collect spillage.

Storage:

- P405: Store locked up.

Disposal:

- P501: Dispose of contents/ container to an approved waste disposal plant.

Other hazards:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Substance

CAS-No.: 461432-26-8

Components:

- **Chemical name:**
(2S,3R,4R,5S,6R)-2-(3-(4-ethoxybenzyl)-4-chlorophenyl)-6-(hydroxymethyl)-tetrahydro-2H-pyran-3,4,5-triol
- **CAS No.:** 461432-26-8
- **Concentration (% w/w):** >= 80 - <= 100 (withheld as a trade secret)

4. FIRST AID MEASURES

- **General advice:** Show this safety data sheet to the doctor in attendance.
- **If inhaled:** After inhalation: fresh air. Call in physician.
- **In case of skin contact:** Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
- **In case of eye contact:** After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
- **If swallowed:** After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
- **Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.
- **Protection of first-aiders:** For personal protection see section 8.
- **Notes to physician:** N/A.

5. FIREFIGHTING MEASURES

- **Suitable extinguishing media:** Water, Foam, Carbon dioxide (CO₂), Dry powder.
- **Unsuitable extinguishing media:** For this substance/mixture no limitations of extinguishing agents are given.
- **Specific hazards during fire fighting:** Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
- **Hazardous combustion products:** Carbon oxides, Hydrogen chloride gas.
- **Specific extinguishing methods:** N/A.
- **Further information:** Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
- **Special protective equipment for fire-fighters:** Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures:** Advice for non-emergency personnel: Avoid generation and inhalation of powder in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: For personal protection 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 carefully. Dispose of properly. Clean up affected area. Avoid generation of powder.

7. HANDLING AND STORAGE

- **Advice on safe handling:** Work under hood. Do not inhale substance/mixture. For precautions see section 2.
- **Further information on storage conditions:** Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.
- **Storage class:** 6.1C, Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects.
- **Recommended storage temperature:** -4 °F / -20 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Ingredients with workplace 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: Filter type P3 (based on DIN EN 143, DIN 14387).
 - **Hand protection:** Nitrile rubber gloves (Full contact: 0.11 mm thickness, >480 min breakthrough; Splash contact: 0.11 mm thickness, >480 min breakthrough). Handle with impervious gloves.
 - **Eye protection:** Safety glasses tested and approved under government standards such as NIOSH (US) or EN 166 (EU).
 - **Skin and body protection:** Protective clothing.
 - **Hygiene measures:** Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** powder
- **Colour:** N/A
- **Odour:** N/A
- **Odour Threshold:** N/A
- **pH:** N/A
- **Melting point:** N/A
- **Boiling point/boiling range:** N/A
- **Flash point:** N/A
- **Evaporation rate:** N/A
- **Flammability (solid, gas):** N/A
- **Flammability (liquids):** N/A
- **Burning rate:** N/A
- **Upper/Lower explosion limit:** N/A
- **Vapour pressure:** N/A

- **Relative vapour density:** N/A
- **Relative density:** N/A
- **Density:** N/A
- **Water solubility:** N/A
- **Partition coefficient: n-octanol/water:** log Pow: 2.34 (77 °F / 25 °C); Method: OECD Test Guideline 107. Bioaccumulation is not expected.
- **Autoignition temperature:** N/A
- **Decomposition temperature:** N/A
- **Viscosity:** N/A
- **Explosive properties:** Not classified as explosive.
- **Oxidizing properties:** None.
- **Molecular weight:** 408.87 g/mol
- **Particle size:** N/A

10. STABILITY AND REACTIVITY

- **Reactivity:** Flammable organic substances in fine distribution may generally assume a powder explosion potential when whirled up.
- **Chemical stability:** The product is chemically stable under standard ambient conditions (room temperature).
- **Possibility of hazardous reactions:** N/A.
- **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 - 500.1 mg/kg (Expert judgement). Inhalation/Dermal: N/A.
- **Skin corrosion/irritation:** Rabbit - No skin irritation.
- **Serious eye damage/eye irritation:** Bovine cornea - Moderate eye irritation (Lit.).
- **Respiratory or skin sensitization:** Local lymph node assay (LLNA) Mouse - Negative.
- **Germ cell mutagenicity:** Ames test (E. coli/S. typhimurium), Chromosome aberration (CHO cells), Unscheduled DNA synthesis (Rat), and In vivo micronucleus test (Rat) were all negative.
- **Carcinogenicity:** No component identified as a probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA.
- **Reproductive toxicity:** May damage the unborn child. Studies indicate a hazard to babies during the lactation period.
- **STOT - single exposure:** N/A.
- **STOT - repeated exposure:** Causes damage to organs (Kidney) through prolonged or repeated exposure.
- **Aspiration hazard:** N/A.

- **Additional Information:** Repeated dose toxicity studies in rats (28 d, 84 d, 182 d) showed NOAEL values ranging from 25 to 50 mg/kg. Toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

- **Ecotoxicity:**
 - Toxicity to algae: NOEC (*Pseudokirchneriella subcapitata*) - 37 mg/l (72 h).
 - Toxicity to fish: NOEC (*Pimephales promelas*) - 1 mg/l (Chronic).
 - Toxicity to daphnia: NOEC (*Daphnia*) - 10 mg/l (21 d).
- **Persistence and degradability:** N/A.
- **Bioaccumulative potential:** log Pow: 2.34. Bioaccumulation is not expected.
- **Mobility in soil:** N/A.
- **Other adverse effects:** This product does not contain Class I or Class II ODS as defined by the U.S. Clean Air Act.

13. DISPOSAL CONSIDERATIONS

- **Disposal methods:** Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. No mixing with other waste

16. OTHER INFORMATION

Revision Date: 2026/07/27

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.