

Dasatinib (BMS-354825) SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Dasatinib (BMS-354825)
- **Catalog Number:** S1021
- **CAS Number:** 302962-49-8
- **IUPAC Name:** N-(2-chloro-6-methylphenyl)-2-(6-(4-(2-hydroxyethyl)piperazin-1-yl)-2-methylpyrimidin-4-yl amino)thiazole-5-carboxamide

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. Hazard(s) identification

The substance is classified and labeled according to the Globally Harmonized System (GHS).

Classification of the substance or mixture:

- Acute toxicity - oral 3 (H301): Toxic if swallowed.
- Carcinogenicity 2 (H351): Suspected of causing cancer.
- Reproductive toxicity 2 (H361): Suspected of damaging fertility or the unborn child.
- Specific target organ toxicity (repeated exposure) 1 (H372): Causes damage to organs through prolonged or repeated exposure.
- Eye damage 1 (H318): Causes serious eye damage.
- Aquatic Chronic 1 (H410): Very toxic to aquatic life with long lasting effects.
- Skin irritation 2 (H315): Causes skin irritation.

Pictogram:



Signal word: Danger

Hazard statements:

- H301: Toxic if swallowed.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H351: Suspected of causing cancer.
- H361: Suspected of damaging fertility or the unborn child.
- H372: Causes damage to organs through prolonged or repeated exposure.
- H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P260: Do not breathe dust/fume/gas/mist/vapors/spray.
- P264: Wash 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/hearing protection.
- P301+P310: If swallowed: Immediately call a poison center/doctor.
- P321: Specific treatment (see on this label).
- P330: Rinse mouth.
- P302+P352: If on skin: Wash with plenty of water.
- 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.
- P314: Get medical advice/attention if you feel unwell.
- P362+P364: Take off contaminated clothing and wash it before reuse.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P391: Collect spillage.
- P405: Store locked up.
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

NFPA ratings (scale 0 - 4):

- Health = 3
- Fire = 0
- Reactivity = 0

HMIS-ratings (scale 0 - 4):

- Health = *3

- Fire = 0
- Reactivity = 0

Other hazards:

Results of PBT and vPvB assessment: Not applicable.

Hazards not otherwise classified:

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3. Composition/information on ingredients

Chemical characterization: Substances

CAS No. Description: 302962-49-8 Dasatinib

Identification number(s):

- EC number: 801-607-0

4. First-aid measures

Description of first aid measures:

- **General information:** Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident is required. In case of irregular breathing or respiratory arrest, provide artificial respiration.
- **After inhalation:** In case of unconsciousness, place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. Fire-fighting measures

Extinguishing media:

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment. A solid water stream may be inefficient.

Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters:

- **Protective equipment:** No special measures required.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up: Use neutralizing agent. Dispose contaminated material as waste according to section 13.

Reference to other sections:

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7. Handling and storage

Precautions for safe handling: Thorough dedusting.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities:

- **Storage:** Store in accordance with information listed on the product insert.
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

Specific end use(s): No further relevant information available.

8. Exposure controls/personal protection

Control parameters:

- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.

Exposure controls:

- **Appropriate engineering controls:** No further data; see section 7.
- **Personal protective equipment:**
 - **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the skin and eyes.
 - **Breathing equipment:** In case of brief exposure or low pollution, use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.

- **Protection of hands:** Protective gloves. The glove material has to be impermeable and resistant to the product/the substance/the preparation. Selection of the glove material should consider penetration times, rates of diffusion, and degradation.

- **Material of gloves:** The selection of suitable gloves depends not only on the material but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material:** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed goggles.

9. Physical and chemical properties

Information on basic physical and chemical properties:

- **Physical state:** powder
- **Color:** Not determined.
- **Odor:** Characteristic
- **Structural Formula:** C₂₂H₂₆ClN₇O₂S
- **Molecular Weight:** 488 g/mol
- **Odor threshold:** Not determined.
- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** Undetermined.
- **Flammability:** Product is not flammable.
- **Explosion limits:** Lower: Not determined; Upper: Not determined.
- **Flash point:** Not applicable.
- **Decomposition temperature:** Not determined.
- **pH-value:** Not applicable.
- **Viscosity:** Kinematic: Not applicable; Dynamic: Not applicable.
- **SOLUBILITY:** DMF: 25 mg/ml; DMF:PBS(pH 7.2)(1:1): 0.5 mg/ml; DMSO: 14.3 mg/ml.
- **Solubility in / Miscibility with Water:** Not determined.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Vapor pressure:** Not applicable.
- **Density:** Not determined.
- **Relative density:** Not determined.
- **Vapor density:** Not applicable.
- **Particle characteristics:** Not determined.
- **Appearance Form:** powder
- **Ignition temperature:** Not determined.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Evaporation rate:** Not applicable.

10. Stability and reactivity

Reactivity: No further relevant information available.

Chemical stability:

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: strong oxidizing agents.

Hazardous decomposition products: carbon dioxide, carbon monoxide, hydrogen sulfide, nitrogen oxides, phosgene.

11. Toxicological information

RTECS Number: XJ3466000

Information on toxicological effects:

- **Acute toxicity:**
 - **LD/LC50 values relevant for classification:** Oral TDLO 182 ml/kg/13W intermittent (woman).
- **Primary irritant effect:**
 - **On the skin:** Irritant to skin and mucous membranes.
 - **On the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.

Additional toxicological information:

- **Interactive effects:** No interactive effects between components are known.
- **Carcinogenic categories:**
 - **IARC (International Agency for Research on Cancer):** Substance is not listed.
 - **NTP (National Toxicology Program):** Substance is not listed.
 - **OSHA-Ca (Occupational Safety & Health Administration):** Substance is not listed.

12. Ecological information

Toxicity:

- **Aquatic toxicity:** No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Results of PBT and vPvB assessment:

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

Other adverse effects:

• **Additional ecological information:**

• **General notes:** Water hazard class 3 (Self-assessment): extremely hazardous for water. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Must not reach bodies of water or drainage ditch until

16. OTHER INFORMATION

Revision Date: 2026/07/10

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.