

# Lapatinib (GW572016) SDS | MSDS

## 1.PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

- **Product Name:** Lapatinib (GW572016)
- **Catalog Number:** S2111
- **CAS Number:** 231277-92-2
- **IUPAC Name:** N-(4-(3-fluorobenzyloxy)-3-chlorophenyl)-6-(5-((2-(methylsulfonyl)ethylamino)methyl)furan-2-yl)quinazolin-4-amine,di4-methylbenzenesulfonate

### 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:

- Reproductive toxicity: Category 2
- Effects on or via lactation
- Specific target organ toxicity - repeated exposure: Category 2 (Liver)
- Long-term (chronic) aquatic hazard: Category 4

### Pictogram:



**Signal Word:** Warning

### Hazard Statements:

- H361: Suspected of damaging fertility or the unborn child.
- H362: May cause harm to breast-fed children.

- H373: May cause damage to organs (Liver) through prolonged or repeated exposure.
- H413: May cause long lasting harmful effects to aquatic life.

**Precautionary Statements:**

- **Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe powder. Avoid contact during pregnancy and while nursing. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
- **Response:** IF exposed or concerned: Get medical advice/attention.
- **Storage:** Store locked up.
- **Disposal:** Dispose of contents/container to an approved waste disposal plant.

**Other Hazards:** None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product is a substance.

- **Chemical Name:** Lapatinib
- **CAS-No.:** 231277-92-2
- **Concentration:**  $\geq 80$  -  $\leq 100\%$  (The actual concentration is withheld as a trade secret).

### 4. FIRST AID MEASURES

- **General Advice:** Present this safety data sheet to the attending physician.
- **Inhalation:** Move to fresh air. If symptoms persist, call a physician.
- **Skin Contact:** Immediately remove all contaminated clothing. Rinse skin with water or shower. Consult a physician.
- **Eye Contact:** Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses. Consult an ophthalmologist.
- **Ingestion:** Immediately make the victim drink water (maximum of two glasses). Consult a physician.
- **Most Important Symptoms/Effects:** The most important known symptoms and effects are described in the labelling (Section 2) and/or Section 11.
- **Protection of First-Aiders:** Refer to Section 8 for personal protection.
- **Notes to Physician:** N/A.

### 5. FIREFIGHTING MEASURES

- **Suitable Extinguishing Media:** Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder.
- **Unsuitable Extinguishing Media:** No limitations of extinguishing agents are given for this substance.
- **Specific Hazards:** Combustible material. Development of hazardous combustion gases or vapors (Carbon oxides, Sulfur oxides, Hydrogen chloride gas) is possible in the event of fire.
- **Specific Extinguishing Methods:** N/A.

- **Further Information:** Use water spray to suppress gases/vapors/mists. Prevent fire extinguishing water from entering surface water or groundwater systems.
- **Special Protective Equipment:** Wear self-contained breathing apparatus and suitable protective clothing. Maintain a safe distance.

## 6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Avoid inhalation of powder. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area and consult an expert.
- **Environmental Precautions:** Do not allow the product to enter drains.
- **Methods for Containment and Cleaning Up:** Cover drains. Collect, bind, and pump off spills. Observe material restrictions. Take up dry and dispose of properly. Clean the affected area and avoid the generation of powder.

## 7. HANDLING AND STORAGE

- **Advice on Safe Handling:** Work under a hood. Do not inhale the substance or mixture.
- **Storage Conditions:** Keep the container tightly closed in a dry place.
- **Storage Class:** 11, Combustible powder.
- **Recommended Storage Temperature:** 36 - 46 °F / 2 - 8 °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 P3 (standard DIN EN 143).
  - **Hand Protection:** Handle with nitrile rubber gloves (thickness 0.11 mm, break through time 480 min).
  - **Eye Protection:** Use safety glasses tested and approved under government standards such as NIOSH (US) or EN 166 (EU).
  - **Skin and Body Protection:** Wear protective clothing.
- **Hygiene Measures:** Change contaminated clothing. Preventive skin protection is recommended. Wash hands after working with the substance.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** powder
- **Color:** N/A
- **Odour:** N/A
- **Odour Threshold:** N/A
- **pH:** N/A

- **Melting point:** N/A
- **Boiling point/boiling range:** N/A
- **Flash point:** Not applicable
- **Evaporation rate:** N/A
- **Flammability (powder, 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:** N/A
- **Autoignition temperature:** N/A
- **Decomposition temperature:** N/A
- **Viscosity:** N/A
- **Explosive properties:** Not classified as explosive.
- **Oxidizing properties:** None
- **Molecular weight:** 581.07 g/mol
- **Particle size:** N/A

## 10. STABILITY AND REACTIVITY

- **Reactivity:** Flammable organic substances in fine distribution may have dust explosion potential when whirled up.
- **Chemical Stability:** The product is 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:** N/A.
- **Hazardous Decomposition Products:** In the event of fire, see Section 5.

## 11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** N/A for oral, inhalation, or dermal routes.
- **Skin Corrosion/Irritation:** N/A.
- **Serious Eye Damage/Irritation:** N/A.
- **Respiratory or Skin Sensitization:** N/A.
- **Germ Cell Mutagenicity:** N/A.

- **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:** Suspected of damaging the unborn child. Studies indicate a hazard to babies during the lactation period.
- **STOT - Single Exposure:** N/A.
- **STOT - Repeated Exposure:** May cause damage to organs (Liver) through prolonged or repeated exposure.
- **Aspiration Hazard:** N/A.
- **Additional Information:** N/A.

## 12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** May cause long lasting harmful effects to aquatic life.
- **Persistence and Degradability:** N/A.
- **Bioaccumulative Potential:** N/A.
- **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 Section 602.
- **Endocrine Disrupting Properties:** N/A.

## 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

- **IATA-DGR:** Not regulated as a dangerous good.
- **IMDG-Code:** Not regulated as a dangerous good.
- **49 CFR:** Not regulated as a dangerous good.
- **Transport in Bulk:** Not applicable for product as supplied.
- **Poison Inhalation Hazard:** No.
- **Special Precautions for User:** 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 311/312 : Acute Health Hazard

##### Hazards

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 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 components of this product are reported in the following inventories:

US 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:** 2026/08/04

**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.