

Laduviglusib (CHIR-99021) Hydrochloride SDS | MSDS

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Laduviglusib (CHIR-99021) Hydrochloride
- **Catalog Number:** S2924
- **CAS Number:** 1797989-42-4
- **IUPAC Name:**
6-(2-(4-(2,4-dichlorophenyl)-5-(4-methyl-1H-imidazol-2-yl)pyrimidin-2-ylamino)ethylamino)nicotinonitrile hydrochloride

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

This substance is not classified as hazardous according to EC Directives 67/548/EEC, 1999/45/EC, or 1272/2008. The product does not require specific labeling under current EC directives or national legislation. There are no other identified hazards.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The substance is identified as follows:

- **Product Name:**
6-(2-(4-(2,4-dichlorophenyl)-5-(4-methyl-1H-imidazol-2-yl)pyrimidin-2-ylamino)ethylamino)nicotinonitrile hydrochloride
- **CAS Number:** 252917-06-9
- **Molecular Weight:** 465.34

4. FIRST AID MEASURES

- **General Advice:** Consult a physician and present this safety data sheet.
- **Inhalation:** Move the individual to fresh air and monitor breathing. If breathing is difficult, administer oxygen; if breathing has ceased, provide artificial respiration and seek medical attention.
- **Skin Contact:** Immediately wash the affected area with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes, ensuring they are laundered before reuse. Consult a physician.
- **Eye Contact:** Flush eyes with copious amounts of water for at least 15 minutes and consult a physician.
- **Ingestion:** Rinse the mouth with water. Do not induce vomiting unless instructed by medical personnel. Never give anything by mouth to an unconscious person. Consult a physician.
- **Symptoms and Effects:** The chemical, physical, and toxicological properties have not been thoroughly investigated.
- **Special Treatment:** Immediate medical attention is required, and the safety data sheet should be shown to the attending physician.

5. FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
- **Special Hazards:** Combustion may result in the emission of toxic fumes.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and suitable protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Do not take action without suitable protective equipment. Evacuate personnel to safe areas and ensure adequate ventilation. Avoid breathing powder.
- **Environmental Precautions:** Prevent the product from entering drains.
- **Containment and Cleanup:** Cover the spillage with a suitable absorbent material. Sweep up the material and place it in an appropriate container for disposal according to Section 13.

7. HANDLING AND STORAGE

- **Safe Handling:** Use only in a chemical fume hood with an independent air supply. Avoid inhalation and contact with eyes, skin, and clothing. Avoid the formation of powder and aerosols. Ensure the area is well-ventilated and kept away from ignition sources.
- **Storage Conditions:** Store in a cool, well-ventilated area away from direct sunlight. Keep containers tightly sealed. The recommended storage temperature is -20°C ($\pm 5^{\circ}\text{C}$).
- **Specific End Uses:** Intended for use in laboratory fume hoods. Refer to employer's COSHH risk assessments.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

- **Engineering Controls:** Use in a fume hood. Ensure the laboratory is equipped with a safety shower and an eye wash station.
- **Personal Protective Equipment:**
 - **Eye/Face:** Use appropriate safety glasses.
 - **Skin:** Use chemical-resistant gloves (minimum standard BS EN 374:2003). Inspect gloves before use and wash hands thoroughly after handling.
 - **Body:** Wear appropriate protective clothing.
 - **Respiratory:** Use a suitable respirator if a risk assessment indicates it is necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Off-white powder
- **Vapor Pressure:** N/A
- **Odor:** N/A
- **Vapor Density:** N/A
- **Odor Threshold:** N/A
- **Relative Density:** N/A
- **pH:** N/A
- **Solubility(ies):** N/A
- **Melting / Freezing Point:** N/A
- **Partition Coefficient:** N/A
- **Boiling Point / Range:** N/A
- **Auto-ignition Temperature:** N/A
- **Flash Point:** N/A
- **Decomposition Temperature:** N/A
- **Evaporation Rate:** N/A
- **Viscosity:** N/A
- **Flammability (solid, gas):** N/A
- **Explosive Properties:** N/A
- **Upper / Lower Flammability or Explosive Limits:** N/A
- **Oxidising Properties:** N/A

10. STABILITY AND REACTIVITY

- **Reactivity:** Stable under recommended transport or storage conditions.
- **Chemical Stability:** Stable under recommended storage conditions.
- **Hazardous Reactions:** Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur upon exposure to heat or moisture.
- **Conditions to Avoid:** Heat and moisture.
- **Incompatible Materials:** Strong acids/alkalis and strong oxidising/reducing agents.

- **Hazardous Decomposition Products:** Combustion may emit toxic fumes. No known decomposition information is available.

11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** N/A.
- **Skin/Eye/Respiratory Irritation:** Classification criteria are not met based on available data.
- **Sensitization/Mutagenicity/Carcinogenicity/Reproductive Toxicity:** Classification criteria are not met based on available data.
- **STOT (Single/Repeated Exposure) and Aspiration Hazard:** Classification criteria are not met based on available data.
- **Symptoms / Routes of Exposure:**
 - **Inhalation:** Possible throat irritation and chest tightness.
 - **Ingestion:** Possible throat irritation.
 - **Skin:** Possible mild irritation at the site of contact.
 - **Eyes:** Possible irritation and redness.
 - **Delayed / Immediate Effects:** No known symptoms.
- **Additional Information:** Exposure may cause irritation of the eyes, mucous membranes, skin, and upper respiratory tract. The chemical, physical, and toxicological properties have not been fully investigated.

12. ECOLOGICAL INFORMATION

No specific data provided for this section.

13. DISPOSAL CONSIDERATIONS

- **Product:** Transfer the material to a suitable container and arrange for collection by a specialized disposal company in accordance with national legislation.
- **Contaminated Packaging:** Dispose of in a regulated landfill site or via other methods for hazardous or toxic wastes in accordance with national legislation.

14. TRANSPORT INFORMATION

The product is classified according to the UN Model Regulations, IMDG Code, ADR, RID, and IATA.

- **UN-Number:** Does not meet the criteria for classification as hazardous for transport.
- **UN Proper Shipping Name:** Does not meet the criteria for classification as hazardous for transport.
- **Transport Hazard Class(es):** Does not meet the criteria for classification as hazardous for transport.
- **Packaging Group:** Does not meet the criteria for classification as hazardous for transport.
- **Environmental Hazards:** Not classified as environmentally hazardous or as a marine pollutant.
- **Special Precautions:** N/A.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

N/A

California Proposition 65

Not applicable

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Revision Date: 2026/05/28

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.