

Baricitinib (LY3009104) SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Baricitinib (LY3009104)
- **Catalog Number:** S2851
- **CAS Number:** 1187594-09-7
- **IUPAC Name:** 3-Azetidineacetonitrile, 1-(ethylsulfonyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-

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 1B
- Specific target organ toxicity - single exposure: Category 3 (Respiratory system)
- Specific target organ toxicity - repeated exposure: Category 1 (Blood, Bone marrow, lymphatic system)

Pictogram:



Signal Word: Danger

Hazard Statements:

- H335: May cause respiratory irritation.
- H360: May damage fertility or the unborn child.

- H372: Causes damage to organs (Blood, Bone marrow, lymphatic system) through prolonged or repeated exposure.

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.
- P264: Wash skin thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

• **Response:**

• P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

- P308 + P313: IF exposed or concerned: Get medical advice/ attention.

• **Storage:**

- P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
- 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

Components:

- **Chemical Name:** 3-Azetidineacetonitrile, 1-(ethylsulfonyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-
- **CAS-No.:** 1187594-09-7
- **Concentration (% w/w):** >= 90 - <= 100

4. FIRST AID MEASURES

- **General advice:** Show this material 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. FIRE-FIGHTING 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, Nitrogen oxides (NO_x), Sulfur oxides.
- **Specific extinguishing methods:** N/A.
- **Further information:** Suppress (knock down) gases/vapors/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 authorized persons.
- **Storage class:** 6.1C, Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects.
- **Recommended storage temperature:** 36 - 46 °F / 2 - 8 °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 and splash contact). Breakthrough time: 480 min. Glove thickness: 0.11 mm.
 - **Eye protection:** Safety glasses tested and approved under appropriate 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
- **Color:** N/A
- **Odor:** N/A
- **Odor 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
- **Vapor pressure:** N/A
- **Relative vapor 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
- **Flow time:** N/A
- **Explosive properties:** Not classified as explosive.
- **Oxidizing properties:** none

- **Molecular weight:** 371.42 g/mol
- **Particle size:** N/A

10. STABILITY AND REACTIVITY

- **Reactivity:** Flammable organic substances in correspondingly 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:** 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:** N/A (Oral, Inhalation, Dermal).
- **Skin corrosion/irritation:** N/A.
- **Serious eye damage/eye irritation:** N/A.
- **Respiratory or skin sensitization:** N/A.
- **Germ cell mutagenicity:** N/A.
- **Carcinogenicity:** No ingredient 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:** Presumed human reproductive toxicant.
- **Specific target organ toxicity - single exposure:** May cause respiratory irritation.
- **Specific target organ toxicity - repeated exposure:** Causes damage to organs through prolonged or repeated exposure (Blood, Bone marrow, lymphatic system).
- **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:**
 - **Toxicity to fish:** LC50 (Pimephales promelas (fathead minnow)): > 18 mg/l (Exposure time: 96 h).
 - **Toxicity to algae/aquatic plants:** (Pseudokirchneriella subcapitata (green algae)): > 23 mg/l (Exposure time: 72 h).
- **Persistence and degradability:** N/A.
- **Bioaccumulative potential:** N/A.
- **Mobility in soil:** N/A.
- **Other adverse effects:** 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).

13. DISPOSAL CONSIDERATIONS

• **Disposal methods:** Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

14. TRANSPORT INFORMATION

- **IATA-DGR:** Not regulated as a dangerous good.
- **IMDG-Code:** Not regulated as a dangerous good.
- **Transport in bulk according to IMO instruments:** Not applicable for product as supplied.
- **49 CFR Road:** Not regulated as a dangerous good.
- **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 313

This material does not contain any chemical components with known CAS numbers that

16. OTHER INFORMATION

Revision Date: 2026/07/13

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.