

AZD2281 (Olaparib) SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** AZD2281 (Olaparib)
- **Catalog Number:** S1060
- **CAS Number:** 763113-22-0
- **IUPAC Name:** 4-(3-(1-(cyclopropanecarbonyl)piperazine-4-carbonyl)-4-fluorobenzyl)phthalazin-1(2H)-one

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

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

- Acute toxicity, Oral (Category 3), H301
- Reproductive toxicity (Category 1B), H360

2.2 GHS Label elements, including precautionary statements

Pictogram:



Signal Word: Danger

Hazard Statements:

- H301: Toxic if swallowed.
- H360: May damage fertility or the unborn child.

Precautionary Statements:

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P264: Wash skin thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P301 + P310 + P330: IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
- P308 + P313: IF exposed or concerned: Get medical advice/ attention.
- P405: Store locked up.
- P501: Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None.

3. Composition/information on ingredients

3.1 Substances

Synonyms: 4-(3-(1-(cyclopropanecarbonyl)piperazine-4-carbonyl)-4-fluorobenzyl)phthalazin-1(2H)-one

Formula: C₂₄H₂₃FN₄O₃

Molecular weight: 434.46 g/mol

CAS-No.: 763113-22-0

EC-No.: 642-941-5

Component: 4-(3-(1-(cyclopropanecarbonyl)piperazine-4-carbonyl)-4-fluorobenzyl)phthalazin-1(2H)-one

Classification: Acute Tox. 3; Repr. 1B; H301, H360

Concentration: <= 100 %

4. First aid measures

4.1 Description of first-aid measures

- **General advice:** Show this material safety data sheet to the doctor in attendance.
- **If inhaled:** After inhalation, move to fresh air. Call a 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. Remove contact lenses. Call an ophthalmologist.
- **If swallowed:** Give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20-40 g in a 10% slurry), and consult a doctor as quickly as possible.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

N/A.

5. Firefighting measures

5.1 Extinguishing media

- **Suitable extinguishing media:** Water, Foam, Carbon dioxide (CO₂), Dry powder.
- **Unsuitable extinguishing media:** No limitations of extinguishing agents are given for this substance/mixture.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x), Hydrogen fluoride. The substance is combustible. Development of hazardous combustion gases or vapors is possible in the event of fire.

5.3 Advice for firefighters

Stay in the danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of powder. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, and consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 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.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling

- **Advice on safe handling:** Work under a hood. Do not inhale substance/mixture.
- **Hygiene measures:** Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

- **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.
- **Recommended storage temperature:** -20 - 0 °C
- **Storage class (TRGS 510):** 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which cause chronic effects.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

- **Appropriate engineering controls:** Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
- **Eye/face protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.
- **Skin protection:** Handle with impervious gloves. Nitrile rubber gloves are recommended (minimum layer thickness: 0.11 mm, break through time: 480 min).
- **Body Protection:** Protective clothing.
- **Respiratory protection:** Required when powder is generated. Recommended Filter type: Filter type P3.
- **Control of environmental exposure:** Do not let product enter drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **a) Appearance Form:** powder
- **b) Odor:** N/A
- **c) Odor Threshold:** N/A
- **d) pH:** N/A
- **e) Melting point/freezing point:** Melting point: 198 °C (388 °F)
- **f) Initial boiling point and boiling range:** N/A
- **g) Flash point:** Not applicable
- **h) Evaporation rate:** N/A
- **i) Flammability (solid, gas):** N/A
- **j) Upper/lower flammability or explosive limits:** N/A

- k) Vapor pressure: N/A
- l) Vapor density: N/A
- m) Density: 1.4 g/cm³
- n) Water solubility: 1 g/l at 25 °C (77 °F)
- o) Partition coefficient: n-octanol/water: N/A
- p) Autoignition temperature: N/A
- q) Decomposition temperature: N/A
- r) Viscosity: N/A
- s) Explosive properties: N/A
- t) Oxidizing properties: None

9.2 Other safety information

N/A.

10. Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up, a powder explosion potential may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

N/A.

10.6 Hazardous decomposition products

In the event of fire: see section 5.

11. Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: LD50 Oral - Rat - 240 - 300 mg/kg. Inhalation: N/A. Dermal: N/A.
- 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:** May damage the unborn child. May damage fertility or the unborn child.
- **Specific target organ toxicity - single exposure:** N/A.
- **Specific target organ toxicity - repeated exposure:** N/A.
- **Aspiration hazard:** N/A.

11.2 Additional Information

RTECS: TH9203962. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

12.1 Toxicity

N/A.

12.2 Persistence and degradability

N/A.

12.3 Bioaccumulative potential

N/A.

12.4 Mobility in soil

N/A.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Endocrine disrupting properties

N/A.

12.7 Other adverse effects

N/A.

13. Disposal considerations

13.1 Waste treatment methods

Product: 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

DOT (US)

UN number: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic powder, organic, n.o.s.

(4-[[3-[[4-(Cyclopropylcarbonyl)-1-piperazinyl]carbonyl]-4-fluorophenyl]methyl]-1(2H)-phthalazinone)

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

IMDG

UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: TOXIC POWDER, ORGANIC, N.O.S.

(4-[[3-[[4-(Cyclopropylcarbonyl)-1-piperazinyl]carbonyl]-4-fluorophenyl]methyl]-1(2H)-phthalazinone)

IATA

UN number: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic powder, organic, n.o.s.

(4-[[3-[[4-(Cyclopropylcarbonyl)-1-piperazinyl]carbonyl]-4-fluorophenyl]methyl]-1(2H)-phthalazinone)

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 exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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 ingredients of this product are reported in the following inventories:

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: 2026/07/06

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.