

TAK-243 (MLN7243) SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** TAK-243 (MLN7243)
- **Catalog Number:** S8341
- **CAS Number:** 1450833-55-2
- **IUPAC Name:** Sulfamic acid, [(1R,2R,3S,4R)-2,3-dihydroxy-4-[[2-[3-[(trifluoromethyl)thio]phenyl]pyrazolo[1,5-a]pyrimidin-7-yl]amino]cyclopentyl]methyl ester

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 in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable powder: Category 4

Other hazards

None known.

GHS label elements

Signal Word: Warning

Hazard Statements: H227 Combustible powder.

Precautionary Statements:

Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Components

Chemical name: dimethyl sulphoxide

CAS No.: 67-68-5

Concentration (% w/w): ≥ 90 - ≤ 100

Actual concentration is withheld as a trade secret.

4. FIRST AID MEASURES

If inhaled: After inhalation: fresh air.

In case of skin contact: In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact: After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed: After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell. Subsequently administer: activated charcoal (20 - 40 g in 10% slurry).

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.

Protection of first-aiders: For personal protection see section 8.

Notes to physician: Laxative: Sodium sulfate (1 tablespoon/1/4 l water).

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. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or

vapours possible in the event of fire. Fire may cause evolution of: Sulfur oxides.

Hazardous combustion products: Carbon oxides, 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. Remove container from danger zone and cool with water.

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: Do not breathe vapors, aerosols. Keep away from heat and sources of ignition. 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 with powder-absorbent material (e.g. Chemizorb). Dispose of properly. Clean up affected area.

7. HANDLING AND STORAGE

For precautions see section 2.2.

Advice on protection against fire and explosion: Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Advice on safe handling: Observe label precautions.

Further information on storage conditions: Tightly closed.

Storage class: 10, Combustible powder.

Recommended storage temperature: Recommended storage temperature see product label.

Further information on storage stability: Recommended storage temperature see product label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components: dimethyl sulphoxide (CAS-No. 67-68-5)

Value type: TWA

Control parameters: 250 ppm

Basis: US WEEL

Engineering measures: N/A.

Personal protective equipment:

Respiratory protection: Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds.

Hand protection:

Full contact material: Chloroprene; Break through time: 480 min; Glove thickness: 0.65 mm; Protective index: Full contact; Manufacturer: KCL 720 Camapren.

Splash contact material: Latex gloves; Break through time: 240 min; Glove thickness: 0.6 mm; Protective index: Splash contact; Manufacturer: Lapren (KCL 706 / Aldrich Z677558, Size M).

Eye protection: Safety glasses.

Skin and body protection: Flame retardant antistatic protective clothing.

Hygiene measures: Change contaminated clothing. Wash hands after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: powder

Color: clear

Odor: odorless

Odor Threshold: Not applicable

pH: N/A

Melting point: N/A

Boiling point/boiling range: N/A

Flash point: 189 °F / 87 °C (Method: c.c., refers to pure substance)

Evaporation rate: N/A

Flammability (solid, gas): N/A

Flammability (powder): N/A

Burning rate: N/A

Self-ignition: 572 - 576 °F / 300 - 302 °C (1,013 hPa)

Upper explosion limit: 63.0 %(V)

Lower explosion limit: 1.8 %(V)

Vapor pressure: N/A

Relative vapor density: N/A

Relative density: N/A

Density: N/A

Solubility(ies): Water solubility: miscible (77 °F / 25 °C, Method: EPI Suite)

Partition coefficient: n-octanol/water: N/A

Autoignition temperature: N/A

Decomposition temperature: N/A

Viscosity, dynamic: N/A

Viscosity, kinematic: N/A

Flow time: N/A

Explosive properties: Not classified as explosive.

Oxidizing properties: none

Particle size: N/A

10. STABILITY AND REACTIVITY

Reactivity: Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Chemical stability: hygroscopic.

Possibility of hazardous reactions: Risk of explosion with: acetylidene, organic halides, perchlorates, Acid chlorides, nonmetallic halides, iron(III) compounds, nitrates, fluorides, chlorates, hydrides, perchloric acid, Oxides of phosphorus, Nitric acid, silver compounds, silicon compounds, silanes, acid halides. Exothermic reaction with: boron compounds, oxyhalogenic compounds, Potassium, sodium, Strong oxidizing agents, phosphorus halides, strong reducing agents, Acid chlorides, Strong acids, silver salt, nitrogen dioxide. Risk of ignition or formation of inflammable gases or vapours with: potassium permanganate.

Conditions to avoid: Strong heating.

Incompatible materials: various plastics, Metals.

Hazardous decomposition products: In the event of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Mixture:

Acute toxicity: Oral: N/A; Inhalation: N/A; Dermal: N/A.

Skin corrosion/irritation: Remarks: Possible damages: slight irritation.

Serious eye damage/eye irritation: Remarks: Possible damages: slight irritation.

Respiratory or skin sensitization: N/A.

Germ cell mutagenicity: N/A.

Carcinogenicity: IARC: No ingredient $\geq 0.1\%$ identified as probable, possible or confirmed human carcinogen. NTP: No ingredient $\geq 0.1\%$ identified as known or anticipated carcinogen. OSHA: No component $\geq 0.1\%$ on OSHA's list of regulated carcinogens.

Reproductive toxicity: N/A.

Specific target organ toxicity - single exposure: N/A.

Specific target organ toxicity - repeated exposure: N/A.

Aspiration hazard: N/A.

11.2 Additional Information:

Possible symptoms: After uptake: CNS disorders, Nausea, Tiredness, Headache. Possible damages: Damage to: Liver, Kidney. May accelerate skin absorption of other materials. However, when the product is handled appropriately, hazardous effects are unlikely to occur. Handle in accordance with good industrial hygiene and safety practice.

Components: dimethyl sulphoxide:

Acute toxicity: LD50 Oral - Rat - 28,300 mg/kg; LC0 Inhalation - Rat - 4 h - > 5.33 mg/l (dust/mist); LD50 Dermal - Rat - 40,000 mg/kg.

Skin corrosion/irritation: Rabbit - Result: slight irritation (4 h).

Serious eye damage/eye irritation: Rabbit - Result: slight irritation (24 h).

Respiratory or skin sensitization: Maximization Test (Guinea pig) - Result: negative; LLNA (Mouse) - Result: negative.

Germ cell mutagenicity: Ames test, sister chromatid exchange assay, chromosome aberration - all negative.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Product: Toxicity to fish: N/A.

Components: dimethyl sulphoxide:

Toxicity to fish: LC50 (Danio rerio): > 25,000 mg/l (96 h).

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna): 24,600 mg/l (48 h).

Toxicity to algae/aquatic plants: ErC50 (Pseudokirchneriella subcapitata): 17,000 mg/l (72 h).

Toxicity to microorganisms: EC50 (activated sludge): 10 - 100 mg/l (30 min).

Persistence and degradability:

Product: N/A.

Components: dimethyl sulphoxide: Not readily biodegradable (31% in 28 d). Stability in water: Degradation half life: 0.12 - 1.2 h (30 °C) pH: 7; Remarks: Hydrolyzes readily.

Bioaccumulative potential:

Product: N/A.

Components: dimethyl sulphoxide: log Pow: -1.35 (68 °F / 20 °C). Bioaccumulation is not expected.

Mobility in soil:

Product: N/A.

Other adverse effects:

Product: N/A.

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

International Regulations:

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.

National regulation:

49 CFR Road:

UN/ID/NA number

16. OTHER INFORMATION

Revision Date: 2026/06/29

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.