

Ilomastat (GM6001) SDS | MSDS

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Ilomastat (GM6001)
- **Catalog Number:** S7157
- **CAS Number:** 142880-36-2
- **IUPAC Name:** Butanediamide, N4-hydroxy-N1-[(1S)-1-(1H-indol-3-ylmethyl)-2-(methylamino)-2-oxoethyl]-2-(2-methylpropyl)-, (2R)-

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

According to the GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200), this product is not a hazardous substance or mixture. There are no GHS label elements required. No other hazards are known.

3. Composition/Information on Ingredients

The product is a substance.

Components: Butanediamide, N4-hydroxy-N1-[(1S)-1-(1H-indol-3-ylmethyl)-2-(methylamino)-2-oxoethyl]-2-(2-methylpropyl)-, (2R)-.

There are no hazardous ingredients present in this substance.

4. First Aid Measures

- **If inhaled:** Move the person to fresh air.
- **In case of skin contact:** Immediately take off all contaminated clothing. Rinse the skin with water or shower.

- **In case of eye contact:** Rinse out with plenty of water. Remove contact lenses if present.
- **If swallowed:** Have the victim drink water (two glasses at most). Consult a doctor if the individual feels unwell.
- **Most important symptoms and effects:** The most important known symptoms and effects are described in the hazard identification (Section 2) and/or toxicological information (Section 11).
- **Protection of first-aiders:** Refer to Section 8 for personal protection.
- **Notes to physician:** N/A.

5. Fire-Fighting Measures

- **Suitable extinguishing media:** Water, Foam, Carbon dioxide (CO₂), Dry powder.
- **Unsuitable extinguishing media:** No limitations of extinguishing agents are given for this substance.
- **Specific hazards during fire fighting:** The product is combustible. Hazardous combustion gases or vapors, such as carbon oxides and nitrogen oxides (NO_x), may be released in the event of a fire.
- **Specific extinguishing methods:** N/A.
- **Further information:** Use water spray to suppress gases, vapors, or mists. Prevent fire extinguishing water from contaminating surface water or groundwater systems.
- **Special protective equipment for fire-fighters:** Wear a self-contained breathing apparatus in the event of a fire.

6. Accidental Release Measures

- **Personal precautions and emergency procedures:** For non-emergency personnel, avoid inhalation of powder. Evacuate the danger area, observe emergency procedures, and consult an expert. For emergency responders, see Section 8.
- **Environmental precautions:** Do not let the 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 the material dry and dispose of it properly. Clean the affected area and avoid the generation of powder.

7. Handling and Storage

- **Handling:** For precautions, see Section 2.2.
- **Storage conditions:** Keep the container tightly closed and in a dry place.
- **Storage class:** 11 (Combustible Solids).
- **Recommended storage temperature:** Refer to the product label.
- **Storage stability:** Refer to the product label for recommended storage temperature.

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 P1, based on DIN EN 143, DIN 14387, and related standards.

- **Hand protection:** Handle with nitrile rubber gloves (thickness: 0.11 mm; breakthrough time: 480 min). This applies to both full and splash contact (e.g., KCL 741 Dermatrill L).
- **Eye protection:** Use safety glasses tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
- **Hygiene measures:** Change contaminated clothing. Wash hands thoroughly after working with the substance.

9. Physical and Chemical Properties

- **Appearance:** powder
- **Color:** off-white
- **Odor:** N/A
- **Odor Threshold:** N/A
- **pH:** N/A
- **Melting point:** 396-399 °F / 202-204 °C
- **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:** Slightly soluble
- **Solubility in other solvents:** Soluble in Ethanol (10 g/l) and dimethyl sulfoxide.
- **Partition coefficient (n-octanol/water):** log Pow: 2.05 (77 °F / 25 °C); bioaccumulation is not expected.
- **Autoignition temperature:** N/A
- **Decomposition temperature:** N/A
- **Viscosity:** N/A
- **Explosive properties:** N/A
- **Oxidizing properties:** None
- **Molecular weight:** 388.46 g/mol
- **Particle size:** N/A

10. Stability and Reactivity

- **Reactivity:** Generally, flammable organic substances in fine distribution may have a powder explosion potential when whirled up.
- **Chemical stability:** The product is chemically stable under standard ambient conditions (room temperature).

- **Possibility of hazardous reactions:** N/A.
- **Conditions to avoid:** No information available.
- **Incompatible materials:** N/A.
- **Hazardous decomposition products:** See Section 5 for information in the event of fire.

11. Toxicological Information

- **Acute toxicity:** N/A for oral, inhalation, or dermal exposure.
- **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:** N/A.
- **Specific target organ toxicity (single/repeated exposure):** N/A.
- **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:** N/A.
- **Persistence and degradability:** N/A.
- **Bioaccumulative potential:** N/A.
- **Mobility in soil:** N/A.
- **Other adverse effects:** N/A.

13. Disposal Considerations

- **Waste from residues:** Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in their original containers. Do not mix with other waste. Handle uncleaned containers in the same manner as 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:** Not applicable for the 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 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: 2026/07/20

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.