

Vorinostat (SAHA) SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Vorinostat (SAHA)
- **Catalog Number:** S1047
- **CAS Number:** 149647-78-9
- **IUPAC Name:** N1-hydroxy-N8-phenyl-octanediamide

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)

- Germ cell mutagenicity: Category 2
- Reproductive toxicity: Category 1A

Other hazards

None known.

GHS label elements

Pictogram:



- **Signal word:** Danger
- **Hazard statements:**
 - H341: Suspected of causing genetic defects.

- H360: May damage fertility or the unborn child.

• **Precautionary statements:**

• **Prevention:**

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

• **Response:**

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

• **Storage:**

- P405: Store locked up.

• **Disposal:**

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

- **Substance / Mixture:** Substance

- **CAS-No.:** 149647-78-9

• **Components:**

- **Chemical name:** SAHA
- **CAS No.:** 149647-78-9
- **Concentration (% w/w):** ≥ 90 - $\leq 100\%$
- **Note:** Actual concentration is withheld as a trade secret.

4. FIRST AID MEASURES

- **General advice:** Show this 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 2.2) and/or in section 11.
- **Protection of first-aiders:** For personal protection see section 8.
- **Notes to physician:** N/A.

5. FIREFIGHTING 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 firefighting:** Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
- **Hazardous combustion products:** Carbon oxides, Nitrogen oxides (NOx).
- **Specific extinguishing methods:** N/A.
- **Further information:** Suppress (knock down) gases/vapours/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 inhalation of powder. 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 2.2.
- **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 authorised persons.
- **Storage class:** 6.1C, Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects.
- **Recommended storage temperature:** -4 °F / -20 °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:**
 - **Material:** Nitrile rubber
 - **Break through time:** 480 min
 - **Glove thickness:** 0.11 mm

- **Protective index:** Full contact / Splash contact (KCL 741 Dermatril-L)
- **Remarks:** Handle with impervious gloves.
- **Eye protection:** Safety glasses tested and approved under government standards such as NIOSH (US) or EN 166(EU).
- **Skin and body protection:** Protective clothing.
- **Hygiene measures:** Change contaminated clothing. Preventive skin protection recommended. Wash hands 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 vapour 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
- **Explosive properties:** Not classified as explosive.
- **Oxidizing properties:** none
- **Molecular weight:** 264.32 g/mol
- **Particle size:** N/A

10. STABILITY AND REACTIVITY

- **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.

- **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:** Strong oxidizing agents.
- **Hazardous decomposition products:** In the event of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- **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:** In vitro tests showed mutagenic effects.
- **Carcinogenicity:**
 - **IARC:** No component present at levels $\geq 0.1\%$ is identified as probable, possible or confirmed human carcinogen.
 - **NTP:** No component present at levels $\geq 0.1\%$ is identified as a known or anticipated carcinogen.
 - **OSHA:** No component present at levels $\geq 0.1\%$ is on OSHA's list of regulated carcinogens.
- **Reproductive toxicity:** N/A; Known human reproductive toxicant.
- **Specific target organ toxicity - single exposure:** N/A.
- **Specific target organ toxicity - repeated exposure:** N/A.
- **Aspiration hazard:** N/A.

11.2 Additional Information

Symptoms include thrombocytopenia, hyperglycemia, fever, and ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhoea.

12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** N/A.
- **Persistence and degradability:** N/A.
- **Bioaccumulative potential:** N/A.
- **Mobility in soil:** N/A.
- **Other adverse effects:**
 - **Ozone-Depletion Potential:** 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

- **International Regulations:**

- **IATA-DGR:** Not regulated as a dangerous good.
- **IMDG-Code:** Not regulated as a dangerous good.
- **IMO Instruments:** Not applicable for product as supplied.

- **National Regulations:**

- **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 311/312 Hazards

Chronic Health Hazard

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.

Clean Air Act

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).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This

16. OTHER INFORMATION

Revision Date: 2026/07/08

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.