

Trichostatin A (TSA) SDS | MSDS

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Trichostatin A (TSA)
- **Catalog Number:** S1045
- **CAS Number:** 58880-19-6
- **IUPAC Name:** (R,2E,4E)-6-(4-(dimethylamino)benzoyl)-N-hydroxy-4-methylhepta-2,4-dienamide

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

The substance is not classified as a hazardous substance or mixture according to the GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200). There are no known additional hazards.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product is a substance. It contains no hazardous ingredients according to the provided documentation.

4. FIRST AID MEASURES

- **If inhaled:** Move the person to fresh air.
- **In case of skin contact:** Immediately remove all contaminated clothing and rinse the skin with water or shower.
- **In case of eye contact:** Rinse thoroughly with plenty of water and remove contact lenses.
- **If swallowed:** Provide the victim with a maximum of two glasses of water. Consult a physician if the individual feels unwell.

- **Most important symptoms and effects:** The most significant known symptoms and effects are described in the labeling and/or toxicological information.
- **Protection of first-aiders:** Refer to Section 8 for personal protective equipment.
- **Notes to physician:** No specific data provided for this section.

5. FIRE-FIGHTING MEASURES

- **Suitable extinguishing media:** Water, foam, carbon dioxide (CO₂), or dry powder.
- **Unsuitable extinguishing media:** No limitations of extinguishing agents are specified for this substance.
- **Specific hazards:** The material is combustible. Hazardous combustion gases or vapors, including carbon oxides and nitrogen oxides (NO_x), may develop in the event of a fire.
- **Extinguishing methods:** Use water spray to suppress gases, vapors, or mists. Prevent fire-extinguishing water from entering surface water or groundwater systems.
- **Special protective equipment:** Firefighters should wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions:** For non-emergency personnel, avoid inhalation of dusts and evacuate the danger area. Emergency responders should refer to Section 8 for personal protection.
- **Environmental precautions:** Do not allow the product to enter drains.
- **Methods for containment and cleaning up:** Cover drains. Collect, bind, and pump off spills. Take up the material dry and dispose of it properly. Clean the affected area and avoid the generation of dusts.

7. HANDLING AND STORAGE

- **Precautions for safe handling:** Refer to Section 2.2 for precautions.
- **Storage conditions:** Keep the container tightly closed and in a dry place.
- **Storage class:** 11 (Combustible Solids).
- **Recommended storage temperature:** -4 °F / -20 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Control parameters:** Contains no substances with occupational exposure limit values.
- **Engineering measures:** No specific data provided for this section.
- **Personal protective equipment:**
 - **Respiratory protection:** Required when dusts are generated. A P1 type filter is recommended.
 - **Hand protection:** Nitrile rubber gloves are recommended (0.11 mm thickness, breakthrough time of 480 min).
 - **Eye protection:** Use safety glasses approved under standards such as NIOSH (US) or EN 166 (EU).
 - **Hygiene measures:** Change contaminated clothing and wash hands after handling the substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** powder
- **Color:** yellow

- **Odor:** No specific data provided for this section.
- **Odor Threshold:** No specific data provided for this section.
- **pH:** No specific data provided for this section.
- **Melting point/range:** 284 - 289 °F / 140 - 143 °C
- **Boiling point/range:** No specific data provided for this section.
- **Flash point:** No specific data provided for this section.
- **Evaporation rate:** No specific data provided for this section.
- **Flammability (solid, gas):** No specific data provided for this section.
- **Upper/Lower explosion limit:** No specific data provided for this section.
- **Vapor pressure:** No specific data provided for this section.
- **Relative vapor density:** No specific data provided for this section.
- **Relative density:** No specific data provided for this section.
- **Density:** No specific data provided for this section.
- **Solubility(ies):** Soluble in water. Solubility in other solvents: Ethanol (2.0 g/l), dimethyl sulfoxide (20.0 g/l), and Dimethylformamide (30.0 g/l).
- **Partition coefficient (n-octanol/water):** log Pow: 2.355 (Bioaccumulation is not expected).
- **Autoignition temperature:** No specific data provided for this section.
- **Decomposition temperature:** No specific data provided for this section.
- **Viscosity:** No specific data provided for this section.
- **Explosive properties:** No specific data provided for this section.
- **Oxidizing properties:** No specific data provided for this section.
- **Molecular weight:** 302.37 g/mol

10. STABILITY AND REACTIVITY

- **Reactivity:** Flammable organic substances in fine distribution may have dust explosion potential when whirled up.
- **Chemical stability:** The product is chemically stable under standard ambient conditions.
- **Possibility of hazardous reactions:** No specific data provided for this section.
- **Conditions to avoid:** No information available.
- **Incompatible materials:** No specific data provided for this section.
- **Hazardous decomposition products:** In the event of fire, see Section 5.

11. TOXICOLOGICAL INFORMATION

- **Acute toxicity:** N/A for oral, inhalation, or dermal routes.
- **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 component 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.
- **STOT - single/repeated exposure:** N/A.
- **Aspiration hazard:** N/A.
- **Additional Information:** RTECS: MI5215000. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Liver irregularities have been noted based on human evidence.

12. ECOLOGICAL INFORMATION

No specific data provided for this section.

13. DISPOSAL CONSIDERATIONS

Waste material must be disposed of in accordance with national and local regulations. Chemicals should be left in their original containers and not mixed 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.
- **49 CFR Road:** Not regulated as a dangerous good.
- **Poison Inhalation Hazard:** No.
- **Transport in bulk:** Not applicable for the product as supplied.

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 : Acute Health Hazard

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.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

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Pennsylvania Right To Know

(R,2E,4E)-6-(4-(dimethylamino)benzoyl)-N-hydroxy-4-methylhepta-2,4-dienamide 58880-19-6

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

New Jersey Right To Know

(R,2E,4E)-6-(4-(dimethylamino)benzoyl)-N-hydroxy-4-methylhepta-2,4-dienamide 58880-19-6

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: 2026/07/02

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.