

Ferrostatin-1 (Fer-1) SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Ferrostatin-1 (Fer-1)
- **Catalog Number:** S7243
- **CAS Number:** 347174-05-4
- **IUPAC Name:** Benzoic acid, 3-amino-4-(cyclohexylamino)-, ethyl 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:

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3, Respiratory system)

Pictogram:



Signal Word: Warning

Hazard Statements:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Precautionary Statements:

Prevention:

P261: Avoid breathing powder/ fume/ gas/ mist/ vapors/ spray.

P264: Wash skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313: If skin irritation occurs: Get medical advice/ attention.

P337 + P313: If eye irritation persists: Get medical advice/ attention.

P362: Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

Disposal:

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

Other hazards:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Substance

Components:

- **Chemical name:** Benzoic acid, 3-amino-4-(cyclohexylamino)-, ethyl ester
- **CAS-No.:** 347174-05-4
- **Concentration (% w/w):** ≥ 90 - $\leq 100\%$
- **Note:** Actual concentration is withheld as a trade secret.

4. FIRST AID MEASURES

General advice: Show this material safety data sheet to the doctor in attendance.

If inhaled: After inhalation, move person to fresh air.

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

In case of eye contact: Rinse out with plenty of water. Remove contact lenses. Call in ophthalmologist.

If swallowed: 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) and/or in section 11.

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

Notes to physician: N/A.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable extinguishing media: For this substance/mixture, no limitations of extinguishing agents are given.

Specific hazards during fire fighting: Combustible. Development of hazardous combustion gases or vapors possible in the event of fire.

Hazardous combustion products: Carbon oxides, Nitrogen oxides (NO_x).

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.

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, and 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 dry. Dispose of properly. Clean up affected area. Avoid generation of powder.

7. HANDLING AND STORAGE

Precautions for safe handling: For precautions see section 2.

Conditions for safe storage: Keep tightly closed and dry.

Storage class: 11, Combustible Solids.

Recommended storage temperature: 36 - 46 °F / 2 - 8 °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 P2 (based on DIN EN 143, DIN 14387).
- **Hand protection:** Handle with impervious gloves. Nitrile rubber gloves are recommended (0.11 mm thickness, >480 min breakthrough time).
- **Eye protection:** Use safety glasses tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
- **Skin and body protection:** Protective clothing.
- **Hygiene measures:** Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face 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: Not applicable

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: N/A

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

Autoignition temperature: N/A

Decomposition temperature: N/A

Viscosity: N/A

Explosive properties: N/A

Oxidizing properties: none

Molecular weight: 262.35 g/mol

Particle size: N/A

10. STABILITY AND REACTIVITY

Reactivity: Flammable organic substances in correspondingly fine distribution may generally assume a dust 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: 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 for oral, inhalation, or dermal routes.
- **Skin corrosion/irritation:** Causes skin irritation.
- **Serious eye damage/eye irritation:** Causes serious eye irritation.
- **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.
- **STOT - single exposure:** May cause respiratory irritation (Lungs).
- **STOT - repeated exposure:** N/A.
- **Aspiration hazard:** N/A.

11.2 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

Disposal methods: Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. Do not mix with other waste. Handle uncleaned containers like 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 according to IMO instruments: Not applicable for 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 311/312 Hazards

Acute 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.

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: 2026/07/09

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.