

Pirfenidone SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Pirfenidone
- **Catalog Number:** S2907
- **CAS Number:** 53179-13-8
- **IUPAC Name:** 2(1H)-Pyridinone, 5-methyl-1-phenyl-

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:

Acute toxicity, Oral (Category 4)

Pictogram:



Signal Word: Warning

Hazard Statements:

H302: Harmful if swallowed.

Precautionary Statements:

- **Prevention:** P264: Wash skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product.
- **Response:** P301 + P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330: Rinse mouth.

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

Other Hazards:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Chemical Name: 2(1H)-Pyridinone, 5-methyl-1-phenyl-

CAS-No.: 53179-13-8

Concentration: <= 100%

4. FIRST AID MEASURES

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

If Inhaled: Move person to fresh air.

In Case of Skin Contact: Take off contaminated clothing immediately. Rinse skin with water or shower.

In Case of Eye Contact: Rinse out with plenty of water. Remove contact lenses.

If Swallowed: Immediately make victim drink water (maximum of two glasses). Consult a physician.

Most Important Symptoms and Effects: The most important known symptoms and effects are described in the labelling (Section 2) and/or in Section 11.

Protection of First-Aiders: Refer to Section 8 for personal protection.

Notes to Physician: N/A.

5. FIREFIGHTING MEASURES

Extinguishing Media: No limitations of extinguishing agents are given for this substance.

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides (NOx).

Specific Extinguishing Methods: N/A.

Further Information: Use water spray jet to suppress gases, vapors, or mists. Prevent fire extinguishing water from contaminating surface water or ground water systems.

Special Protective Equipment for Firefighters: In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:

- **For non-emergency personnel:** Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area and consult an expert.
- **For emergency responders:** Refer to Section 8 for personal protection.

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. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

7. HANDLING AND STORAGE

Precautions for Safe Handling: For precautions, see Section 2.

Conditions for Safe Storage: Keep container tightly closed in a dry place.

Storage Class: 11, Combustible Solids.

Recommended Storage Temperature: See product label.

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 dusts are generated. Recommended filter type P2 (based on DIN EN 143, DIN 14387).
- **Hand Protection:** Nitrile rubber gloves. Breakthrough time: 480 min. Glove thickness: 0.11 mm.
- **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 is recommended. Wash hands after working with the 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

Vapor Pressure: N/A

Relative Vapour Density: N/A

Relative Density: N/A

Density: N/A

Water Solubility: Insoluble

Partition Coefficient (n-octanol/water): N/A

Autoignition Temperature: N/A

Decomposition Temperature: N/A

Viscosity: N/A

Explosive Properties: N/A

Oxidizing Properties: N/A

Molecular Weight: 185.22 g/mol

10. STABILITY AND REACTIVITY

Reactivity: N/A.

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

Acute Toxicity:

- **Acute Toxicity Estimate (Oral):** 1,295 mg/kg (Calculation method).
- **LD50 Oral (Rat):** 1,295 mg/kg.
- **LD50 Oral (Mouse):** 580 mg/kg.
- **Inhalation/Dermal:** N/A.

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, ACGIH, NTP, or OSHA.

Reproductive Toxicity: N/A.

STOT - Single Exposure: N/A.

STOT - Repeated Exposure: N/A.

Aspiration Hazard: N/A.

Additional Information: RTECS: UV1148200. 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 Treatment 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 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.

Transport in Bulk: Not applicable for product as supplied.

Poison Inhalation Hazard: No.

Special Precautions for User: Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components CAS-No. Component TPQ (lbs)

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.

Pennsylvania Right To Know

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New Jersey Right To Know

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California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

US 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.