

Cycloheximide SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Cycloheximide
- **Catalog Number:** S7418
- **CAS Number:** 66-81-9
- **IUPAC Name:** 4-[2-(3,5-Dimethyl-2-oxo-cyclohexyl)-2-hydroxyethyl]-2,6-piperidinedione

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. Hazard(s) identification

Classification

This substance/mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200):

- Acute oral toxicity: Category 1
- Germ cell mutagenicity: Category 2
- Reproductive toxicity: Category 1B
- Chronic aquatic toxicity: Category 2

Signal Word

Danger

Hazard statement(s)

- Fatal if swallowed.
- Suspected of causing genetic defects.
- May damage fertility or the unborn child.

- Toxic to aquatic life with long lasting effects.

Pictogram:



Precautionary Statement(s)

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid release to the environment.
- Collect spillage.
- IF exposed or concerned: Get medical advice/attention.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
- Store locked up.
- Dispose of contents/container to an approved waste disposal plant.

Supplementary Hazard Information

Hazards not otherwise classified (HNOC): Avoid contact during pregnancy and while nursing.

3. Composition/information on ingredients

Formula: 4-[2-(3,5-Dimethyl-2-oxo-cyclohexyl)-2-hydroxyethyl]-2,6-piperidinedione

Molecular Weight: 281.35

4. First-aid measures

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

Skin contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation occurs, get medical advice/attention.

Inhalation

Move to fresh air. If symptoms persist, call a physician.

Ingestion

Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Immediate medical attention is required.

Most important symptoms and effects, both acute and delayed

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Advice for emergency responders

- **General advice:** Show this safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice.
- **Protection of first-aiders:** Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. Fire-fighting measures

Extinguishing media

- **Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, Foam, Carbon dioxide (CO₂), Dry powder.

Specific hazards arising from the chemical

No information available.

Hazardous Combustion Products

Carbon oxides (CO_x), Nitrogen oxides (NO_x).

Explosion Data

- **Sensitivity to Mechanical Impact:** None
- **Sensitivity to Static Discharge:** None

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- **For non-emergency personnel:** Use personal protective equipment. For personal protection see section 8. Avoid contact with skin, eyes and inhalation of vapors. Ensure adequate ventilation.
- **Other information:** No information available.

Environmental precautions

Should not be released into the environment. Do not let product enter drains. Keep out of waterways.

Methods and material for containment and cleaning up

- **Methods for containment:** Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading.
- **Methods for cleaning up:** Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

7. Handling and storage

Precautions for safe handling

Wear personal protective equipment. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

- **Technical measures/Storage conditions:** Keep container tightly closed in a dry and well-ventilated place. Store locked up.
- **Packaging material:** No information available.
- **Incompatible products:** Strong oxidizing agents, Strong bases, Acid chlorides, Acid anhydrides.

8. Exposure controls/personal protection

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

- **Eye/face protection:** Tightly fitting safety goggles.
- **Skin and body protection:** Wear protective gloves/clothing.
- **Respiratory protection:** In case of inadequate ventilation wear respiratory protection.

Hygiene measures

Keep away from food, drink and animal feeding stuffs. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. Physical and chemical properties

Information on basic physical and chemical properties

- **Physical state:** powder
- **Appearance:** powder
- **Color:** Beige
- **Odor:** No information available
- **Odor Threshold:** No information available
- **pH:** No information available

- **Melting point/freezing point:** 107-120 °C
- **Boiling point or initial boiling point and boiling range:** No information available
- **Flash point:** No information available
- **Evaporation rate:** No information available
- **Flammability:** No information available
- **Lower explosion limit:** No information available
- **Upper explosion limit:** No information available
- **Vapor pressure:** 4.5×10^{-13} @ 25 °C
- **Relative vapor density:** No information available
- **Density and/or relative density:** No information available
- **Solubility:** No information available
- **Solubility in other solvents:** No information available
- **Partition coefficient: n-octanol/water:** No information available
- **Autoignition temperature:** No information available
- **Decomposition temperature:** No information available
- **Viscosity:** No information available
- **Viscosity, dynamic:** No information available

Other information

- **Softening point:** No information available
- **Molecular Weight:** 281.35
- **VOC content:** No information available
- **Liquid Density:** No information available
- **Bulk density:** No information available

10. Stability and reactivity

Reactivity

No information available.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

- **Hazardous reactions:** None under normal processing.
- **Hazardous polymerization:** None under normal processing.

Conditions to Avoid

No information available.

Incompatible Materials

Strong oxidizing agents, Strong bases, Acid chlorides, Acid anhydrides.

Hazardous Decomposition Products

Nitrogen oxides (NO_x), Carbon oxides (CO_x).

11. Toxicological information

Information on likely routes of exposure

- **Inhalation:** There is no data available for this product.
- **Eye contact:** Contact with eyes may cause irritation.
- **Skin contact:** May cause irritation.
- **Ingestion:** Very toxic if swallowed.

Information on toxicological effects

This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxicological and physiological properties of this compound are not well defined.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

- **Symptoms:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- **Skin corrosion/irritation:** Causes skin irritation.
- **Serious eye damage/eye irritation:** Irritating to eyes.
- **Sensitization:** No information available.
- **Mutagenic effects:** Animal experiments showed mutagenic and teratogenic effects.
- **Carcinogenicity:** No component of this product present at levels greater than or equal to 0.1% is identifiable as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.
- **Reproductive toxicity:** Experiments have shown reproductive toxicity effects on laboratory animals. May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.
- **STOT - single exposure:** No information available.
- **STOT - repeated exposure:** No information available.
- **Chronic Toxicity:** Prolonged or repeated exposure increases the risk. Possible risks of irreversible effects.
- **Neurological effects:** No information available.
- **Aspiration Hazard:** No information available.

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Persistence and degradability

Not readily biodegradable. Biological degradability (28d): 1% @ 100 mg/L.

Mobility

No information available.

Bioaccumulation

Not likely to bioaccumulate.

Other adverse effects

No information available.

13. Disposal considerations

Waste Disposal Methods

Should not be released into the environment. Dispose of in accordance with local regulations.

Disposal considerations

Do not empty into drains; dispose of this material and its container in a safe way. Dispose of wastes in an approved waste disposal facility.

14. Transport information

DOT

- **UN number:** UN2811
- **UN proper shipping name:** Toxic powder, organic, n.o.s. (Cycloheximide)
- **Transport hazard class(es):** 6.1
- **Packing group:** I

IATA

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15. Regulatory information

North American Inventory Listing

All components of this product are NOT included on the Toxic Substance Control Act (TSCA) Inventory, DSL, or NDSL All components of this product are NOT included on DSL or NDSL

16. OTHER INFORMATION

Revision Date: 2026/07/17

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.