

Carboplatin SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Carboplatin
- **Catalog Number:** S1215
- **CAS Number:** 41575-94-4
- **IUPAC Name:** (SP-4-2)-diammine[1,1-cyclobutanedicarboxylato(2-)-κO,κO'']-platinum

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 product is classified as hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Classification:

- Acute toxicity (Oral): Category 4
- Acute toxicity (Inhalation): Category 4
- Acute toxicity (Dermal): Category 4
- Respiratory sensitisation: Category 1
- Skin sensitisation: Category 1
- Germ cell mutagenicity: Category 1B
- Reproductive toxicity: Category 1B

Pictogram:



Signal word: Danger

Hazard statements:

- H302 + H312 + H332: Harmful if swallowed, in contact with skin or if inhaled.
- H317: May cause an allergic skin reaction.
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H340: May cause genetic defects.
- H360: May damage fertility or the unborn child.

Precautionary statements:

- **Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing powder. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.
- **Response:** IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. Wash contaminated clothing before reuse.
- **Storage:** Store locked up.
- **Disposal:** Dispose of contents/container to an approved waste disposal plant.

Other hazards: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product is a substance.

- **Chemical name:** (SP-4-2)-diammine[1,1-cyclobutanedicarboxylato(2-)-κO,κO']-platinum
- **CAS-No.:** 41575-94-4
- **Concentration:** >= 90 - <= 100%

Actual concentration is withheld as a trade secret.

4. FIRST AID MEASURES

General advice: First aiders need to protect themselves. Show this safety data sheet to the doctor in attendance.

If inhaled: Move to fresh air. Immediately call a physician. If breathing stops, apply artificial respiration; provide oxygen if necessary.

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

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

If swallowed: Immediately make victim drink water (two glasses at most). 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.

Notes to physician: N/A.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Water, Foam, Carbon dioxide (CO₂), Dry powder.

Unsuitable extinguishing media: No limitations of extinguishing agents are given for this substance.

Specific hazards: Combustible. Development of hazardous combustion gases or vapors (Carbon oxides, Nitrogen oxides) is possible in the event of fire.

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

Further information: Suppress gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by wearing suitable protective clothing and maintaining a safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Advice for non-emergency personnel: Avoid inhalation of powder. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area and consult an expert. For emergency responders, 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 material restrictions (Sections 7 and 10). Take up carefully and dispose of properly. Clean up affected area. Avoid generation of powder.

7. HANDLING AND STORAGE

Advice on safe handling: Work under a hood. Do not inhale substance/mixture. For precautions, see Section 2.

Storage conditions: Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class: 6.1C, Combustible, acute toxic Cat.3 / toxic compounds or compounds causing chronic effects.

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 powder is generated. Recommended Filter type P3 (based on DIN EN 143, DIN 14387).

- **Hand protection:** Nitrile rubber gloves (Full and splash contact: thickness 0.11 mm, break through time 480 min).
- **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:** 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:** N/A
- **Flash point:** N/A
- **Evaporation rate:** N/A
- **Flammability:** N/A
- **Vapor pressure:** N/A
- **Relative 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:** N/A
- **Molecular weight:** 371.25 g/mol

10. STABILITY AND REACTIVITY

Reactivity: Flammable organic substances in fine distribution may have a powder explosion potential when whirled up.

Chemical stability: Chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions: Violent reactions possible with strong oxidizing agents.

Conditions to avoid: No information available.

Incompatible materials: N/A.

Hazardous decomposition products: In the event of fire, see Section 5.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

- LD50 Oral - Rat: 343 mg/kg
- LC50 Inhalation - 4 h: 1.5 mg/l (powder/mist)
- LD50 Dermal: 1,100 mg/kg

Skin corrosion/irritation: N/A.

Serious eye damage/eye irritation: N/A.

Respiratory or skin sensitization: N/A.

Germ cell mutagenicity: In vivo tests showed mutagenic effects.

Carcinogenicity: No component present at levels $\geq 0.1\%$ is identified as a probable, possible, or confirmed human carcinogen by IARC, NTP, or OSHA.

Reproductive toxicity: Presumed human reproductive toxicant.

STOT - single/repeated exposure: N/A.

Aspiration hazard: N/A.

Additional Information: RTECS: TP2300000. Properties have not been thoroughly investigated. Prolonged or repeated exposure can cause vomiting, liver injury, kidney injury, and stomach irregularities based on human evidence.

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

DOT (49 CFR): Not regulated as a dangerous good.

IMDG: Not regulated as a dangerous good.

IATA: Not regulated as a dangerous good.

Transport in bulk: Not applicable for product as supplied.

Poison Inhalation Hazard: No.

Special precautions: 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

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.

Pennsylvania Right To Know

(SP-4-2)-diammine[1,1-cyclobutanedicarboxylato(2-)-κO,κO"]-platinum 41575-94-4

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

California Prop. 65

WARNING: This product can expose you to chemicals including (SP-4-2)-diammine[1,1-cyclobutanedicarboxylato(2-)-κO,κO"]-platinum, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components 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: 2026/07/16

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.