

Cisplatin SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Cisplatin
- **Catalog Number:** S1166
- **CAS Number:** 15663-27-1
- **IUPAC Name:** Platinum, diamminedichloro-, (SP-4-2)-

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

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [GHS/CLP]:

- Acute Toxicity, oral - Category 2
- Serious eye damage/eye irritation - Category 1
- Carcinogenicity - Category 1B

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 [CLP]:

- **Signal word:** Danger
- **Pictogram:**



- **Hazard statement(s):**
- H300: Fatal if swallowed

- H318: Causes serious eye damage
- H350: May cause cancer
- **Precautionary statement(s):**
- P264: Wash hands thoroughly after handling
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing
- P308+313: If exposed or concerned: Get medical advice/attention

2.3 Other hazards

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

- **Product Name:** Cisplatin
- **Synonyms:** CDDP
- **Formula:** Platinum, diamminedichloro-, (SP-4-2)-
- **Molecular Weight:** 300.05
- **CAS Number:** 15663-27-1
- **EC Number:** 239-733-8

4. FIRST AID MEASURES

4.1 Description of first aid measures

- **General advice:** Consult a doctor and show this safety data sheet.
- **If inhaled:** Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
- **In case of skin contact:** Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
- **In case of eye contact:** Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
- **If swallowed:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

4.3 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

5.3 Precautions for fire-fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, powder or gas.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Sweep up material and place in an appropriate container. Hold all material for appropriate disposal as described under section 13.

6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of powder and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Recommended storage temperature: Store at RT.

7.3 Specific end uses

Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

- **Appropriate engineering controls:** Use in a fume hood where applicable. Ensure all engineering measures are in place. Ensure laboratory is equipped with a safety shower and eye wash station.
- **Eye/face protection:** Use appropriate safety glasses.
- **Skin protection:** Use appropriate chemical resistant gloves (minimum requirement BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.
- **Body protection:** Wear appropriate protective clothing.
- **Respiratory protection:** If risk assessment indicates necessary, use a suitable respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- **Appearance:** powder
- **Odor:** N/A
- **Odor threshold:** N/A
- **pH:** N/A
- **Melting / freezing point:** N/A
- **Boiling point / range:** N/A
- **Flash point:** N/A
- **Evaporation rate:** N/A
- **Flammability (solid, gas):** N/A
- **Upper / lower flammability or explosive limits:** N/A
- **Vapor pressure:** N/A
- **Vapor density:** N/A
- **Relative density:** N/A
- **Solubility(ies):** Soluble to 5 mM in water
- **Partition coefficient:** N/A
- **Auto-ignition temperature:** N/A
- **Decomposition temperature:** N/A
- **Viscosity:** N/A
- **Explosive properties:** N/A
- **Oxidising properties:** N/A

9.2 Other safety information

N/A.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed.

10.4 Conditions to avoid

Heat, moisture.

10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

10.6 Hazardous decomposition products

In combustion may emit toxic fumes. No known decomposition information.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- **Acute Toxicity:** ORL-RAT LD50: 20mg/kg; ORL-MUS LD50: 32.7mg/kg.
- **Skin corrosion/irritation:** Classified based on available data.
- **Serious eye damage/irritation:** Classified based on available data.
- **Respiratory or skin sensitization:** Classified based on available data.
- **Germ cell mutagenicity:** Classified based on available data.
- **Carcinogenicity:** IARC: 2A - Possibly carcinogenic to humans.
- **Reproductive toxicity:** Classified based on available data.
- **Specific target organ toxicity - single exposure:** Classified based on available data.
- **Specific target organ toxicity - repeated exposure:** Classified based on available data.
- **Aspiration hazard:** Classified based on available data.

Symptoms / Routes of exposure

- **Inhalation:** Shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing. Absorption through the lungs can occur causing symptoms similar to ingestion.
- **Ingestion:** Soreness and redness of the mouth and throat. Nausea and stomach pain may occur. Blood may be vomited. There may be vomiting and diarrhea.
- **Skin:** Irritation or pain may occur at the site of contact. Redness or whiteness of the skin may occur. Absorption through the skin may be harmful.
- **Eyes:** Pain and redness. Vision may become blurred. Profuse watering of the eyes. Absorption through the eye may cause effects similar to skin contact and/or ingestion.
- **Delayed / Immediate Effects:** Immediate effects can be expected after short-term exposure.

Additional Information

- **RTECS No:** TP2450000

- Exposure may cause irritation of eyes, mucous membranes, upper respiratory tract and skin. The chemical, physical and toxicological properties have not been fully investigated.

12. ECOLOGICAL INFORMATION

N/A

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- **Product:** Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with National legislation.

- **Contaminated packaging:** Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with National legislation.

14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID and IATA.

- **14.1 UN-Number:** UN2811

- **14.2 UN proper shipping name:** Toxic powder, organic, n.o.s. (Cisplatin)

- **14.3 Transport hazard class(es):** 6.1

- **14.4 Packaging group:** II

- **14.5 Environmental hazards:** This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

- **14.6 Special precautions for users:** N/A.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

California Proposition 65

WARNING: This product can expose you to Cisplatin, which is known to the State of California to cause cancer. For more information go to. www.P65Warnings.ca.gov/product Oct 1st 1988

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

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.