

Oxaliplatin SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Oxaliplatin
- **Catalog Number:** S1224
- **CAS Number:** 61825-94-3
- **IUPAC Name:** (SP-4-2)-[(1R,2R)-1,2-cyclohexanediamine-κN1,κN2][ethanedioato(2-)-κO1,κO2]-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. Hazard(s) identification

Classification of the substance or mixture:

- Sensitization - respiratory 1 (H334): May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Germ cell mutagenicity 1A (H340): May cause genetic defects.
- Carcinogenicity 1A (H350): May cause cancer.
- Reproductive toxicity 1A (H360-H362): May damage fertility or the unborn child. May cause harm to breast-fed children.
- Specific target organ toxicity (repeated exposure) 1 (H372): Causes damage to organs through prolonged or repeated exposure.
- Eye damage 1 (H318): Causes serious eye damage.
- Acute toxicity - oral 4 (H302): Harmful if swallowed.
- Acute toxicity - dermal 4 (H312): Harmful in contact with skin.
- Skin irritation 2 (H315): Causes skin irritation.
- Sensitization - skin 1 (H317): May cause an allergic skin reaction.
- Specific target organ toxicity (single exposure) 3 (H335): May cause respiratory irritation.

Pictogram:



Signal word: Danger

Hazard statements:

- H302+H312: Harmful if swallowed or in contact with skin.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317: May cause an allergic skin reaction.
- H340: May cause genetic defects.
- H350: May cause cancer.
- H360-H362: May damage fertility or the unborn child. May cause harm to breast-fed children.
- H335: May cause respiratory irritation.
- H372: Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P260: Do not breathe dusts or mists.
- P263: Avoid contact during pregnancy and /while nursing.
- P264: Wash thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P272: Contaminated work clothing must not be allowed out of the workplace.
- P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P284: [In case of inadequate ventilation] wear respiratory protection.
- P301+P312: If swallowed: Call a poison center/doctor if you feel unwell.
- P302+P352: If on skin: Wash with plenty of water.
- P304+P340: If inhaled: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310: Immediately call a poison center/doctor.
- P308+P313: IF exposed or concerned: Get medical advice/attention.
- P321: Specific treatment (see on this label).
- P314: Get medical advice/attention if you feel unwell.
- P330: Rinse mouth.
- P362+P364: Take off contaminated clothing and wash it before reuse.
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

- P342+P311: If experiencing respiratory symptoms: Call a poison center/doctor.
- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
- P405: Store locked up.
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

NFPA ratings (scale 0 - 4):

- Health = 3
- Fire = 0
- Reactivity = 0

HMIS-ratings (scale 0 - 4):

- Health = *3
- Fire = 0
- Reactivity = 0

Other hazards:

Results of PBT and vPvB assessment: Not applicable.

3. Composition/information on ingredients

Chemical characterization: Substances

CAS No. Description: 61825-94-3 Oxaliplatin

Chemical structural formula:

(SP-4-2)-[(1R,2R)-1,2-cyclohexanediamine-κN1,κN2][ethanedioato(2-)-κO1,κO2]-platinum

4. First-aid measures

Description of first aid measures:

- **General information:** Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident is required.
- **After inhalation:** Supply fresh air and call for a doctor. In case of unconsciousness, place the patient stably in a side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Immediately call a doctor.

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. Fire-fighting measures

Extinguishing media:

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment. A solid water stream may be inefficient.

Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters:

- **Protective equipment:** No special measures required.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Do not allow to enter sewers, surface, or ground water.

Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.

Reference to other sections:

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7. Handling and storage

Precautions for safe handling: Thorough dedusting. Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities:

- **Storage:** Store in accordance with information listed on the product insert.
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

Specific end use(s): No further relevant information available.

8. Exposure controls/personal protection

Control parameters:

- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as a basis.

Exposure controls:

- **Appropriate engineering controls:** No further data; see section 7.
- **Personal protective equipment:**
 - **General protective and hygienic measures:** Keep away from foodstuffs, beverages, and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.
 - **Breathing equipment:** In case of brief exposure or low pollution, use a respiratory filter device. In case of intensive or longer exposure, use a respiratory protective device that is independent of circulating air.
 - **Protection of hands:** Protective gloves. The glove material has to be impermeable and resistant to the product. Selection of the glove material should consider penetration times, rates of diffusion, and degradation.
 - **Material of gloves:** The selection of suitable gloves depends on the material and quality marks, varying from manufacturer to manufacturer.
 - **Penetration time of glove material:** The exact break through time has to be found out by the manufacturer and observed.
 - **Eye protection:** Tightly sealed goggles.

9. Physical and chemical properties

Information on basic physical and chemical properties:

- **Physical state:** powder
- **Color:** Not determined.
- **Odor:** Characteristic
- **Structural Formula:** C₈H₁₄N₂O₄Pt
- **Molecular Weight:** 397.3 g/mol
- **Odor threshold:** Not determined.
- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** 100 °C (212 °F)
- **Flammability:** Product is not flammable.
- **Explosion limits (Lower/Upper):** Not determined.
- **Flash point:** Not applicable.
- **Decomposition temperature:** Not determined.
- **pH-value:** Not applicable.
- **Viscosity (Kinematic/Dynamic):** Not applicable.
- **SOLUBILITY PBS (pH 7.2):** 0.01 mg/ml
- **Solubility in / Miscibility with Water:** Not determined.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Vapor pressure:** Not applicable.
- **Density:** Not determined.
- **Relative density:** Not determined.
- **Vapor density:** Not applicable.

- **Particle characteristics:** Not determined.
- **Appearance (Form):** powder
- **Ignition temperature:** Not determined.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Evaporation rate:** Not applicable.

10. Stability and reactivity

Reactivity: No further relevant information available.

Chemical stability:

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Carbon dioxide, carbon monoxide, nitrogen oxides.

11. Toxicological information

RTECS Number: 61825-94-3 Oxaliplatin TP2275850

Information on toxicological effects:

- **Acute toxicity:**
 - **LD/LC50 values:** Intraperitoneal LD50 14.3 mg/kg (rat).
- **Primary irritant effect:**
 - **On the skin:** Irritant to skin and mucous membranes.
 - **On the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through inhalation and skin contact.

Additional toxicological information:

- **Interactive effects:** No interactive effects between components are known.
- **Carcinogenic categories:**
 - **IARC (International Agency for Research on Cancer):** Substance is not listed.
 - **NTP (National Toxicology Program):** Substance is not listed.
 - **OSHA-Ca (Occupational Safety & Health Administration):** Substance is not listed.

12. Ecological information

Toxicity:

- **Aquatic toxicity:** No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Results of PBT and vPvB assessment: Not applicable.

Other adverse effects:

- **General notes:** Water hazard class 3 (Self-assessment): extremely hazardous for water. Do not allow product to reach ground water, water course, or sewage system, even in small quantities. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even extremely small quantities leak into the ground.

13. Disposal considerations

Waste treatment methods:

- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

- **Recommendation:** Disposal must be made according to official regulations.

14. Transport information

UN-Number:

- DOT, IMDG, IATA: Not regulated.

UN proper shipping name:

- DOT, IMDG, IATA: Not regulated.

Transport hazard class(es):

- DOT, ADN, IMDG, IATA Class: Not regulated.

Packing group:

- DOT, IMDG, IATA: Not regulated.

Environmental hazards: Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

Special precautions for user: Not applicable.

UN "Model Regulation": Not regulated.

15. Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara
- Section 355 (extremely hazardous substances):Substance is not listed.
- Section 313 (Specific toxic chemical listings):Substance is not listed.
- TSCA (Toxic Substances Control Act):Substance is not listed.
- Hazardous Air PollutantsSubstance is not listed.
- Chemicals known to cause cancer:Substance is not listed.
- Chemicals known to cause reproductive toxicity for females:Substance is not listed.
- Chemicals known to cause reproductive toxicity for males:Substance is not listed.
- Chemicals known to cause developmental toxicity:Substance is not listed.
- Carcinogenic categories
- EPA (Environmental Protection Agency)Substance is not listed.
- TLV (Threshold Limit Value)Substance is not listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health)Substance is not listed.
- National regulations:
- Information about limitation of use:
Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.
- Chemical safety assessment:A Chemical Safety Assessment has not been carried out.

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.