

LTS Research Laboratories, Inc. Safety Data Sheet Platinum (IV) Chloride

1. Product and Company Identification

Trade Name: Platinum (IV) Chloride

Chemical Formula: PtCl₄

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H301: Toxic if swallowed.

H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction.

H334: May cause allergy or asthma symptoms or breathing difficulties

if inhaled.

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the

workplace.

P280: Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P301+P310: IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/ Take off

immediately all contaminated clothing. Rinse skin with water/ shower. P304+P340+P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a

POISON CENTER/doctor.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P333+P313: If skin irritation or rash occurs: Get medical advice/

P363: Wash contaminated clothing before reuse.

P405: Store locked up.

P501: Dispose of contents/ container to an approved waste disposal

plant.

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 1

3. Composition

Chemical Family: Nonmetal

Additional Names: Platinum Chloride, Platinum tetrachloride

Platinum(IV) Chloride (PtCl₄):

Percentage: 100 wt% CAS #: 13454-96-1 EC #: 236-645-1

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None

Important Symptoms:

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Keep patient warm. Seek immediate medical attention.

Ingestion: Seek immediate medical attention.

Skin: Immediately wash affected area with mild soap and water. Remove any

contaminated clothing. Seek immediate medical attention.

Eyes: Flush eyes with water, blinking often for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing. Seek

immediate medical attention.

5. Firefighting Measures

Flammability: Non-flammable, except as powder

Extinguishing Media: No special restrictions – use suitable extinguishing agent for

surrounding material and type of fire.

Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective

clothing to prevent contact with skin and eyes. See section 10 for

decomposition products.

6. Accidental Release Measures

If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in

special protection information. Keep unprotected persons away. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. Use neutralizing

agent.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions: Handle under dry protective gas. Avoid contact with skin and eyes.

Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store away from

moisture/water and oxidizing agents. Store under dry inert gas. Store

apart from materials and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.002 mg/m³ as Pt, long-term value Threshold Limit Value: 0.002 mg/m³ as Pt, long-term value

Special Equipment: None

Respiratory Protection: Dust Respirator

Protective Gloves: Rubber gloves with minimum thickness of 0.11 mm

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Dark brown to orange

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorless Constones Inc.

Density: 4.303 g/cc Molecular weight: 336.89 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents
Incompatible Conditions: Moisture/water, Air

Hazardous Decomposition Products: Metal oxide fume, Hydrogen chloride gas, Platinum oxide

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage Skin: Causes severe skin burns

Ingestion: Strong corrosive effect on mouth and throat and the danger of

perforation of esophagus and stomach.

Inhalation: May cause allergy or asthma symptoms, breathing difficulties.

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: 276 mg/kg for rat by mouth

Carcinogen: IARC: No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

NTP: No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen by

NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

OSHA.

12. Ecological Information

Aquatic Toxicity: N/A

Persistent Bioaccumulation Toxicity: N/A

Very Persistent, Very Bioaccumulative:

Notes:

N/A Research

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 8 Corrosive solid Secondary class: 6.1 Poisonous material

Packing Group: III UN Number: UN2923

Proper Shipping Name: Corrosive solids, toxic, n.o.s. (Platinum(IV) chloride)

15. Regulatory Information

Sec 302 Extremely Hazardous:

Sec 304 Reportable Quantities:

N/A

Sec 313 Toxic Chemicals:

No

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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