



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Platinum (IV) Chloride**
PRODUCT NUMBER: 2876
CAS NUMBER: 13454-96-1
SYNONYMS: Platinum tetrachloride, tetrachloroplatinum, platinic chloride
MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P270	Do not eat, drink, or smoke, when using this product.
P280	Wear protective gloves/protective clothing/face protection/eye protection.
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 or doctor/physician.
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 or doctor/physician.

HMIS CLASSIFICATION:

Health: 3 Fire: 0 Reactivity Hazard: 0

NFPA RATING:

Health: 3 Flammability: 0 Reactivity Hazard: 0

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

EYE CONTACT: Causes burns to eyes.

SKIN CONTACT: Causes slight burns to the skin. May cause dermatitis. Can induce an allergic reaction.

INHALATION: Inhalation of dust may cause wheezing, coughing, shortness of breath, and asthma like symptoms. Causes burns to the respiratory tract.

INGESTION: Ingestion may lead to dizziness, abdominal cramps, and vomiting. Harmful if swallowed.

CHRONIC HEALTH EFFECTS: The chloroplatinate allergic reaction known as platinosis ceases when exposure is terminated.

ACUTE HEALTH EFFECTS: Upon repeated exposure certain persons may develop an allergic reaction to chloroplatinates, causing wheezing, coughing, shortness of breath, and runny nose. Causes burns. Harmful if swallowed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: PtCl₄

Molecular Weight: 336.90

CHEMICAL NAME	CAS#	%
Platinum (IV) Chloride	13454-96-1	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with plenty of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove to fresh air and keep at rest. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Use fire fighting measures that suit the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Hydrogen chloride and platinum oxide

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Neutralize spill. Sweep up and place in suitable container for proper disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Platinum (IV) Chloride	0.002 mg/m ³	TWA	OSHA
	0.002 mg/m ³	TLV	ACGIH

TLV: Threshold Limit Value over 8 hours of work.

TWA: Time Weighted Average over 8 hours of work

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.

SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Red-brown solid

ODOR: None

MOLECULAR WEIGHT: 336.90

BOILING POINT: Decomposes

MELTING POINT: 370° C (dec.)

SPECIFIC GRAVITY: 4.303 gm/ml

VAPOR DENSITY: No data available

SOLUBILITY: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Contact with moisture

INCOMPATIBILITY: Strong oxidizing agents

DECOMPOSITION PRODUCTS: Hydrogen chloride and platinum oxide

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – rat – 276 mg/kg

CARCINOGENIC EFFECTS: No component of this product present at levels greater than or equal to 0.1% is not considered to be a human carcinogen.

MUTAGENIC EFFECTS: Not available

TETRAOGENIC EFFECTS: Not available

CHRONIC TOXICITY: Not available

RTECS: TP2275500

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN3260

Corrosive solid, acidic, inorganic, n.o.s.

(Platinum (IV) Chloride)

CLASS 8

PG III

Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

SARA 302/304: Not Listed

SARA 311/312: Acute Health Hazard

SARA (TITLE 313): Not listed

CALIFORNIA PROP. 65: Not Listed

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: Platinum (IV) Chloride

NEW JERSEY RIGHT TO KNOW COMPONENTS: Platinum (IV) Chloride

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Platinum (IV) Chloride

SECTION 16 OTHER INFORMATION

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DATE PREPARED: 03/15

SDS DEPT.