



### SECTION 1: Product Identification

Chemical Name:	Sodium tetrachloroplatinate (II) hydrate
Product Number:	232
CAS Registry Number:	207683-21-4
Formula:	Na <sub>2</sub> PtCl <sub>4</sub> .XH <sub>2</sub> O
EINECS Number:	none
Chemical Family:	halometallate salt
Synonym:	Disodium tetrachloroplatinate hydrate

### SECTION 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	207683-21-4	100	0.002mg/m <sup>3</sup>	0.002mg/m <sup>3</sup>

### SECTION 3: Hazards Identification

Emergency Overview:	Irritating to skin, eyes and respiratory tract. Exposure to platinum salts has been shown to cause wheezing, coughing, shortness of breath and running of the nose. Skin contact can lead to dermatitis.
Primary Routes of Exposure:	Ingestion, skin / inhalation of dust
Eye Contact:	Causes irritation of the eyes.
Skin Contact:	Causes irritation of the skin and dermatitis. Contact through a break in the skin can induce an allergic reaction.
Inhalation:	Inhalation of dust may cause wheezing, coughing, shortness of breath and asthma like symptoms, typical of allergy.
Ingestion:	Ingestion may lead to dizziness, abdominal cramps, and vomiting.
Acute Health Effects:	Upon repeated exposure certain persons may develop an allergic reaction to chloroplatinates, causing wheezing, coughing, shortness of breath and runny nose.
Chronic Health Effects:	The chloroplatinate allergic reaction known as platinosis ceases when exposure is terminated. No permanent long term effects are reported.
NTP:	No



IARC:	No
OSHA:	No
<b>SECTION 4: First Aid Measures</b>	
Eye Exposure:	Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eyes lids open. Get immediate medical attention.
Skin Exposure:	Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
Inhalation:	Remove the victim to fresh air. 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 attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.
<b>SECTION 5: Fire Fighting Measures</b>	
Flash Point:	not applicable
Autoignition Temperature:	none
Explosion Limits:	none
Extinguishing Medium:	None. Material is non-flammable.
Special Fire Fighting Procedures:	No special fire fighting procedures required.
Hazardous Combustion and Decomposition Products:	If involved in a fire this material may emit toxic fumes of chlorine gas and hydrogen chloride.
Unusual Fire or Explosion Hazards:	No unusual fire or explosion hazards.
<b>SECTION 6: Accidental Release Measures</b>	
Spill and Leak Procedures:	To avoid raising dust, small spills may be mixed with diatomaceous earth, sand, vermiculite or other suitable inert material and swept up.



## SECTION 7: Handling and Storage

Handling and Storage: Store solid in a tightly sealed container.

## SECTION 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.

Skin Protection: Wear protective clothing and gloves. Consult with glove manufacturer to determine the proper type of glove.

Ventilation: Material may form a fine dust. If possible, handle the material in an efficient fume hood.

Respirator: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.

Additional Protection: No additional protection required.

## SECTION 9: Physical and Chemical Properties

Color and Form: reddish-brown powdr.

Molecular Weight: 382.92

Melting Point: 100°C

Boiling Point: no data

Vapor Pressure: not applicable

Specific Gravity: no data

Odor: none

Solubility in Water: very soluble

## SECTION 10: Stability and Reactivity

Stability: air and moisture stable

Hazardous Polymerization: no hazardous polymerization

Conditions to Avoid: none

Incompatibility: active metals



Decomposition Products:	sodium chloride, chlorine, platinum metal, oxide, chloride, water, hydrochloric acid.
<b>SECTION 11: Toxicological Information</b>	
RTECS Data:	No information available in the RTECS files.
Carcinogenic Effects:	no data
Mutagenic Effects:	no data
Tetratogenic Effects:	no data
<b>SECTION 12: Ecological Information</b>	
Ecological Information:	No information available
<b>SECTION 13: Disposal Considerations</b>	
Disposal:	Dispose of according to local, state and federal regulations.
<b>SECTION 14: Transportation</b>	
Shipping Name (CFR):	Non-hazardous
Hazard Class (CFR):	NA
Additional Hazard Class (CFR):	NA
Packaging Group (CFR):	NA
UN ID Number (CFR):	NA
Shipping Name (IATA):	Non-hazardous
Hazard Class (IATA):	NA
Additional Hazard Class (IATA):	NA
Packaging Group (IATA):	NA
UN ID Number	NA



(IATA):

**SECTION 15: Regulatory Information**

TSCA: Listed in the TSCA inventory.

SARA (Title 313): Title compound not listed.

Second Ingredient: none

Third Ingredient: none