



MATERIAL SAFETY DATA SHEETS

32

Ammonium chloro platinate

1. CHEMICAL IDENTITY

Chemical Name : Ammonium chloro platinate

Chemical Classification: Toxic

Trade Name :

Synonyms: Ammonium hexachloroplatinate, Aiammonium hexachloroplatinate(2-), Platinic ammonium chloride, Platinum ammonium chloride

Formula : H8Cl6N2Pt

CAS No: 16919-58-7 **UN No:** 3288

Regulated Identification

Shipping Name :

Hazchem Code : 2X

Codes / Label : Class 6.1, Toxic

Hazardous Waste ID No :

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
1 Ammonium chloro platinate	16919-58-7	3	
2		4	

2. PHYSICAL / CHEMICAL DATA

Boiling Pt. °C:

Physical State: Solid

Appearance: Yellow cubic crystals.

Melting Pt °C: Decomposes @ 380 °C

Vapour Pressure @ 35°C mmHg:

Odour: Odourless

Vapour Density(Air =1):

Solubility in water at 30°C g/100ml: 0.7 g/100ml @ 15 °C

Others:

Specific Gravity (Water =1): 3.06 g/cm³

pH :

3. FIRE / EXPLOSION HAZARD DATA

Flammability : No

LEL:

Flash Point °C in OC:

TDG Flammability:

UEL:

Flash Point °C in CC:

Autoignition Temperature °C :

Explosion sensitivity to impact:

Explosion sensitivity to static Electricity:

Hazardous Combustion Products : Toxic gases and vapors (such as chlorine) may be released when chlorine-containing soluble platinum salts decompose.

Hazardous Polymerization :

Combustible Liquid: No

Explosive Material:

Corrosive Material

Flammable Material: No

Oxidiser :

Others:

Pyrophoric Material:

Organic Peroxide :

4. REACTIVITY DATA

Chemical Stability : Stable under normal temperatures and pressures.

Incompatibility with other material : Alkalies, potassium hydroxide.

Reactivity : Dusts may form an explosion hazard. Boiling with potassium hydroxide yields a product that, after drying, explodes at 205 deg C or when mixed with combustible materials.

Hazardous Reaction Products : Hydrogen chloride, nitrogen oxides, ammonia and/or derivatives, nitrogen, chloride fumes.

5. HEALTH HAZARD DATA

Routes of entry: Inhalation, skin, eyes and ingestion

Effects of Exposure / Symptoms:

May be fatal if inhaled. May cause pulmonary fibrosis and permanent damage. May cause respiratory sensitization. Symptoms include asthma, sneezing, coughing, bronchitis, tightness of chest, and irritation of nose and throat. May cause irritation and dermatitis. Causes eye irritation. Lachrymator. Harmful if swallowed. May cause gastrointestinal irritation with nausea.

Emergency Treatment :

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth respiration.

Skin: Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do not induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

LD50 (oral-rat) mg/kg: 195 mg/kg

STEL:

LC50 (rat) mg/kg:

Odour Threshold:

Permissible Exposure Limit:

TLV (ACGIH) :

NFPA Hazard	Health	Flammability	Reactivity	Special
Signals	2	0	1	

6. PREVENTIVE MEASURES

Personal Protective Equipment : Wear appropriate protective eyeglasses or chemical safety goggles, wear appropriate protective gloves and clothing to prevent skin exposure. Wear appropriate protective clothing to prevent skin exposure.

Handling : Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Use only in a chemical fume hood. Do not breathe dust.

Storage : Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

Precautions :

7. EMERGENCY / FIRST AID MEASURES

FIRE:

Fire Extinguishing Media : To extinguish fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

Special Procedure : In fire fighting, the minimum respiratory protection required above 0.002 mg/cu m is a self-contained breathing apparatus with a full

facepiece operated in pressure-demand or other positive pressure mode.

Unusual Hazards :

EXPOSURE: First Aid Measures:

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth respiration.

Skin: Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do not induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Antidotes / Dosages:

SPILLS :

Steps To Be Taken : Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Provide ventilation.

Waste Disposal Method:

8. ADDITIONAL INFORMATION / REFERENCES

9. MANUFACTURERS / SUPPLIERS DATA

NAME OF FIRM :	Contact person
MAILING ADDRESS :	in Emergency :
TELEPHONE / TELEX NOS :	Local Bodies involved :
TELEGRAPHIC ADDRESS :	Standard Packing :
OTHERS :	Trem Card Details / Ref :

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