



Material Safety Data Sheet Platinum Cobalt Color Standards, APHA 10 - 100

Section 1 - Chemical Product and Company Identification

MSDS Name:

Platinum Cobalt Color Standards, APHA 10 - 100

Catalog Numbers:

LC13291, LC13292, LC13293, LC13294, LC13295

Synonyms:

None

Company Identification:

LabChem Inc
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300 or
(011) 703-527-3887

Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7647-01-0	Hydrochloric acid	0.1 - 2
16921-30-5	Potassium hexachloroplatinate	0.003 - 0.026
7791-13-1	Cobalt chloride hexahydrate	0.002 - 0.02

Section 3 - Hazards Identification

Emergency Overview

Appearance: *clear, slight yellow solution***Caution.** *May cause irritation to eyes, skin, and respiratory tract.***Target Organs:** *lungs, red blood cells.***Potential Health Effects****Eye:**

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

May cause gastrointestinal tract irritation.



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Inhalation:

May cause respiratory tract irritation.

Chronic:

No information found.

Section 4 - First Aid Measures

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid.

Ingestion:

Get medical aid at once. Do not induce vomiting. If victim is conscious, give 2-4 cupfuls of milk or water to dilute.

Inhalation:

Move victim to fresh air. Give artificial respiration if necessary. Keep victim warm and at rest. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHS/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Health- 0, Flammability- 0, Instability- 0.

CAS# 7647-01-0: Health- 3, Flammability- 0, Instability- 1.

CAS# 16921-30-5: Health- 3, Flammability- 0, Instability- 0.

CAS# 7791-13-1: Health- 3, Flammability- 0, Instability- 0.

Explosion Limits:

Lower: n/a Upper: n/a

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.



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Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in suitable container labeled for later disposal.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing.

Storage:

Store capped at room temperature. Protect from heat and incompatibles. Keep away from strong oxidizers. Do not store in metal containers.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on the list.	None of the components are on the list.	None of the components are on the list.
Hydrochloric acid	2 ppm Ceiling	50 ppm IDLH	5 ppm Ceiling 7 mg/m ³ Ceiling
Potassium hexachloroplatinate(IV)	0.002 mg/m ³ TWA (as Pt) (listed under Platinum soluble salts)	0.002 mg/m ³ TWA (as Pt) (listed under Platinum soluble salts) 4 mg/m ³ IDLH (as Pt) (listed under Platinum soluble salts)	0.002 mg/m ³ TWA (as Pt) (listed under Platinum soluble salts)
Cobalt chloride hexahydrate	None of the components are on the list	None of the components are on the list	None of the components are on the list

OSHA Vacated PELs:

Chloroplatinic acid hexahydrate: 0.002 mg/m³ TWA (as Pt) (listed under Platinum soluble salts)

Personal Protective Equipment

Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.



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Section 9 - Physical and Chemical Properties

Physical State:	Clear liquid
Color:	Slight yellow
Odor:	Odorless
pH:	Acidic
Vapor Pressure:	Not available
Vapor Density:	Not available
Evaporation Rate:	Not available
Viscosity:	Not available
Boiling Point:	212°F (100°C)
Freezing/Melting Point:	32°F (0°C)
Decomposition Temperature:	Not available
Solubility in water:	Soluble
Specific Gravity/Density:	1.00 - 1.02
Molecular Formula:	Not available
Molecular Weight:	Not available

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:

Metals, strong oxidizing agents, strong reducing agents, bases, acetic anhydride, alcohols, amines, aldehydes, cyanides, sulfides, phosphides.

Hazardous Decomposition Products:

Hydrogen chloride.

Hazardous Polymerization:

Has not been reported.

Section 11- Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 7647-01-0: MW4025000.

CAS# 16921-30-5: TP1650000.

CAS# 7791-13-1: GG0200000.

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 7647-01-0:

Inhalation, mouse: LC50 = 1108 ppm/1H

Inhalation, rat: LC50 = 3124 ppm/1H

Oral, rabbit: LD50 = 900 mg/kg.

CAS# 16921-30-5:

Oral, rat: LD50 = 195 mg/kg.



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CAS# 7791-13-1:

Oral, rat: LD50 = 766 mg/kg.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7647-01-0: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 16921-30-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7791-13-1: Listed as possibly carcinogenic to humans (Group 2B) by IARC.

Epidemiology:

Higher concentrations may cause skin or respiratory sensitization.

Teratogenicity:

See actual entry in RTECS for complete information.

Reproductive:

See actual entry in RTECS for complete information.

Mutagenicity:

See actual entry in RTECS for complete information.

Neurotoxicity:

No information found

Section 12 - Ecological Information

No information found

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 7647-01-0 is listed on the TSCA Inventory.

CAS# 16921-30-5 is listed on the TSCA Inventory.

CAS# 7791-13-1 is not listed on the TSCA Inventory. It is considered to be listed because the anhydrous form is listed.



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SARA Reportable Quantities (RQ):

CAS# 7647-01-0: final RQ = 5000 pounds (2270 kg)

CERCLA/SARA Section 313:

This material contains Hydrochloric acid (CAS# 7647-01-0, <2%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

OSHA - Highly Hazardous:

CAS# 7647-01-0 is considered highly hazardous by OSHA.

US State

State Right to Know:

Hydrochloric acid can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

Potassium hexachloroplatinate can be found on the following state Right-to-Know lists: New Jersey.

California Regulations:

None listed.

European/International Regulations

Canadian DSL/NDSL:

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 7647-01-0 is listed on Canada's DSL List.

CAS# 16921-30-5 is listed on Canada's DSL List.

CAS# 7791-13-1 is not listed on Canada's DSL or NDSL List.

Canada Ingredient Disclosure List:

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7647-01-0 is listed on Canada's Ingredient Disclosure List.

CAS# 16921-30-5 is listed on Canada's Ingredient Disclosure List.

CAS# 7791-13-1 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 19, 2009

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