trans-diamminedichloro Platinum (II)





1. Product And Company Identification

Supplier

Colonial Metals, Inc.

Building 20

505 Blue Ball Road

Elkton, MD 21921 United States

Company Contact: Joseph Fittos III Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: jfittos@colonialmetals.com

Web Site: colonialmetals.com

Supplier Emergency Contacts & Phone Number

Chemtrac: 800-424-9300

World Wide - Call COLLECT to U.S: 703-527-3887

Manufacturer

Colonial Metals, Inc.

Building 20

505 Blue Ball Road

Elkton, MD 21921 United States

Company Contact: Joseph Fittos III Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: jfittos@colonialmetals.com Web Site: colonialmetals.com

Manufacturer Emergency Contacts & Phone Number

Chemtrac: 800-424-9300

World Wide - Call COLLECT to U.S: 703-527-3887

Issue Date: 03/17/2008

Product Name: trans-diamminedichloro Platinum (II) **Chemical Name:** Trans-platinum (II) Diammine

CAS Number: 14913-33-8 Chemical Formula: (NH3)2PtCl2

MSDS Number: 6013 Product Code: 6013

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
trans-diamminedichloro Platinum (II)	14913-33-8	

EMERGENCY OVERVIEW

Irritant.

Risk of serious damage to eyes.

Toxic by inhalation, in contact with skin, and if swallowed. Limited evidence of the carcinogenic effect.

May cause sensitization by inhalation and skin contact.

Target organs: Liver, kidneys.

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Hazards Identification (Pictograms)



3. Hazards Identification

Primary Routes(s) Of Entry

Eye: Likely Inhalation: Likely Skin: Likely

Ingestion: Likely

Eye Hazards

Severe eye irritation.

Skin Hazards

Irritation, may be harmful if absorbed through skin.

Ingestion Hazards

May be harmful if swallowed.

Inhalation Hazards

Irritation to mucous membranes, upper respiratory tract, may be harmful if inhaled.

Conditions Aggravated By Overexposure

Prolonged exposure can cause damage to the liver and kidneys.

To the best of our knowledge the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated.

First Aid (Pictograms)



4. First Aid Measures

Eye

Flush for 15 minutes with plenty of water. If discomfort occurs or persists, contact a physician immediately.

Skin

Immediately wash with soap and copious amounts of water. If discomfort occurs or persists, contact a physician immediately. Remove contaminated clothing and shoes and wash before reuse.

Ingestion

Wash out mouth with water provided the victim is concious. Never give anything by mouth to an unconcious person. Seek medical attention immediately.

Inhalation

Remove to fresh air immediately. If victim is not breathing provide artificial respiration. If breathing is difficult give oxygen. If Contact a physician immediately.

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Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point Method: NA Autoignition Point: NA ℃ Flammability Class: NA

Fire And Explosion Hazards

Use proper safety equipment. Emits toxic fumes under fire conditions.

Extinguishing Media

Suitable: water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

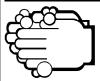
Fire Fighting Instructions

Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Sweep up and place in sealed container. Avoid raising dust. Ventilate area and wash spill site after pickup is complete.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling Precautions

Avoid contact and inhalation. Do not use with exposed skin containing scratches or cuts. Wash thoroughly after handling. Avoid prolonged or repeated exposure.

Storage Precautions

Keep in a tightly closed container.

Work/Hygienic Practices

Always use good personal hygiene after handling.

Protective Clothing (Pictograms)













8. Exposure Controls/Personal Protection

Engineering Controls

Use only in a chemical fume hood. Safety shower and eyewash.

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8. Exposure Controls/Personal Protection - Continued

Eye/Face Protection

ANSI approved safety glasses/goggles

Skin Protection

Rubber/Neoprene (use compatible chemical-resistant gloves).

Respiratory Protection

NIOSH approved chemical cartridge respirator for particulates and acid gas or self-contained breathing apparatus with full face shield.

Other/General Protection

Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and hygiene facilities for washing.

9. Physical And Chemical Properties

Appearance

Yellow powder or crystals

<u>Odor</u>

odorless

Chemical Type: Mixture
Physical State: Solid
Melting Point: 340 °C
Molecular Weight: 300.06

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatible Materials

Strong oxidizing agents

Hazardous Decomposition Products

Nitrogen oxides, hydrogen chloride gas, platinum oxide.

11. Toxicological Information

Subchronic (Target Organ Effects)

Liver. Kidneys. Skin. Female reproductive system, uterus. Bones.

Chronic/Carcinogenicity

Mouse

Intraperitoneal dose: 32408 ug/kg exposure time: 10 w

Frequency: I

Result: Tumorigenic: Equivocal tomorigenic agent by RTECS criteria. Lungs, thorax, or respiration: tumors.

Mutagenicity (Genetic Effects)

Species: Human Dose: 50 UMOL/L Cell Type: lymphocyte

Mutation test: Micronucleus test

Species: Human Dose: 50 UMOL/L

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11. Toxicological Information - Continued

Mutagenicity (Genetic Effects) - Continued

Exposure Time: 4H
Cell Type: fibroblast

Mutation test: DNA damage

Species: Human Dose: 100 UMOL/L

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Cell Type: lung

Mutation test: DNA damage

Species: Human Dose: 5 UMOL/L Cell Type: HeLa cell

Mutation test: DNA damage

Species: Human Dose: 5 UMOL/L Cell Type: HeLa cell

Mutation test: Other mutation test systems

Species: Human Dose: 20 MG/L

Cell Type: Other cell types Mutation test: DNA damage

Species: Mouse Dose: 10 UMOL/L Cell Type: fibroblast

Mutation test: DNA damage

Species: Mouse Dose: 10 UMOL/L Cell Type: leukocyte Mutation test: DNA damage

Species: Mouse Dose: 5 MG/L

Cell Type: Other cell types Mutation test: DNA inhibition

Species: Hamster Dose: 10 UMOL/L Exposure Time: 2H Cell Type: fibroblast

Mutation test: Morphological transformation.

Species: Hamster Dose: 320 UMOL/L Exposure Time: 2H Cell Type: lung

Mutation test: DNA damage

Species: Hamster Dose: 250 UMOL/L Cell Type: lung

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11. Toxicological Information - Continued

Mutagenicity (Genetic Effects) - Continued

Mutation test: Sister chromatid exchange

Species: Hamster Dose: 100 MG/L Cell Type: lung

Mutation test: Mutation in mammalian somatic cells.

Species: Hamster Dose: 34 UMOL/L Cell Type: ovary

Mutation test: Mutation in mammalian somatic cells.

Species: Mammal Dose: 50 UMOL/ Cell Type: lymphocyte Mutation test: DNA L

Miscellaneous Toxicological Information

Oral Rat

> 5110 mg/kg

LD50

Intraperitoneal

Mouse 27 mg/kg LD50

Irritation data:

Skin

Rabbit: no irritation effect

Eyes

Rabbit: severe irritation effect

12. Ecological Information

No Data Available...

13. Disposal Considerations

Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation

NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.

14. Transport Information

Proper Shipping Name

Non-hazardous for transport.

Additional Shipping Paper Description

Same as DOT. Always consult IATA manual before shipping.

15. Regulatory Information

No Data Available...

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15. Regulatory Information - Continued

Canadian Regulatory Information

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No NDSL: No

European Union (EU) Regulatory Information

Symbol of Danger: Xi Indication of Danger: Irritant.

R: 41

Risk Statements: Risk of serious damage to eyes.

S: 26-39

Safety Statements: In case of contact with eyes, rinse

immediately with plenty of water and seek medical advice. Wear

eye/face protection.

DSCL - Europe (Pictograms)



16. Other Information

NFPA Rating

Health: 2
Fire: 0
Reactivity: 0
HMIS Rating
Health: 2
Fire: 0
Reactivity: 0

Personal Protection: J

Revision/Preparer Information

MSDS Preparer: Joseph J. Fittos III

MSDS Preparer Phone Number: 410-398-7200

Other (Pictograms)















Disclaimer

In compliance with the OSHA Hazard Communication Standard, 2.9 C.F.R 1910.1200, we are providing you with a Materials Safety Data Sheet (MSDS) for the hazardous material you are purchasing.

It is your responsibility to educate your employees on the safe use of the hazardous material. With this in mind, a copy should be forwarded to the supervisor of the user or to the user themselves, and copy should be retained in your files for future reference.

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Disclaimer - Continued

Colonial Metals, Inc. makes no presentation as to the accuracy of the information in the MSDS. The information is believed to be correct; however, you (the customer), should perform your own investigation and independent verification. If you resell the product, you are responsible to forward the information in the MSDS to your customer.

Colonial Metals, Inc.

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