SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
- Trade name: PLATINUM BLUE
- Article number: 22407
- CAS Number: 15663-27-1
- EC number: 239-733-8

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  Electron Microscopy Sciences
  1560 Industry Road
  USA-Hatfield, PA 19440
  Tel: 215-412-8400  Fax: 215-412-8450
  email: sgkck@aol.com
  www.emsdiasum.com

- Further information obtainable from: Product safety department

1.4 Emergency telephone number:
  ChemTrec 1-800-424-9300 Contract CCN7661
  1-703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

  GHS06 skull and crossbones
  Acute Tox. 2 H300 Fatal if swallowed.

  GHS05 corrosion
  Eye Dam. 1 H318 Causes serious eye damage.

  GHS07
  Skin Irrit. 2 H315 Causes skin irritation.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  The substance is classified and labelled according to the CLP regulation.
- Hazard pictograms

  GHS05  GHS06
Signal word Danger

Hazard-determining components of labelling:
cisplatin

Hazard statements
H300 Fatal if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
· Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substances
CAS No. Description
15663-27-1 cisplatin

Identification number(s)
· EC number: 239-733-8

SECTION 4: First aid measures

4.1 Description of first aid measures
· General information:
Immediately remove any clothing soiled by the product.
In case of irregular breathing or respiratory arrest provide artificial respiration.
· After inhalation: In case of unconsciousness place patient stably in side position for transportation.
· After skin contact: Immediately wash with water and soap and rinse thoroughly.
· After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
· After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
· Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture No further relevant information available.
Safety data sheet  
according to 1907/2006/EC, Article 31  

Trade name: PLATINUM BLUE

5.3 Advice for firefighters  
- Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures  
- Not required.

6.2 Environmental precautions:  
- Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:  
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
- Dispose contaminated material as waste according to item 13.  
- Ensure adequate ventilation.

6.4 Reference to other sections  
- See Section 7 for information on safe handling.  
- See Section 8 for information on personal protection equipment.  
- See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling  
- Ensure good ventilation/exhaustion at the workplace.  
- Prevent formation of aerosols.  
- Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities  
- Storage:  
  - Requirements to be met by storerooms and receptacles: No special requirements.  
  - Information about storage in one common storage facility: Not required.  
  - Further information about storage conditions: None.

7.3 Specific end use(s)  
- No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters  
- Additional information about design of technical facilities: No further data; see item 7.

8.2 Exposure controls  
- Personal protective equipment:  
  - General protective and hygienic measures:  
    - Keep away from foodstuffs, beverages and feed.  
    - Immediately remove all soiled and contaminated clothing  
    - Wash hands before breaks and at the end of work.  
    - Avoid contact with the skin.  
    - Avoid contact with the eyes and skin.

- Respiratory protection:  
  - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 4)
**Trade name: PLATINUM BLUE**

- **Protection of hands:**
  
  Protective gloves

  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

  Tightly sealed goggles

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**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
  **General Information**
  
  **Form:** Liquid
  **Colour:** Blue
  **Odour:** Characteristic
  **Odour threshold:** Not determined.
  **pH-value:** Not determined.

- **Change in condition**
  **Melting point/Melting range:** Undetermined.
  **Boiling point/Boiling range:** Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:**
  **Decomposition temperature:** Not determined.

- **Self-igniting:** Not determined.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**
  **Lower:** Not determined.
  **Upper:** Not determined.

- **Vapour pressure:** Not determined.

- **Density:** Not determined.
- **Relative density** Not determined.
Trade name: PLATINUM BLUE

- Vapour density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with water: Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- Solvent content:
  - Organic solvents: 0.0 %
  - VOC (EC): 0.00 %
- Solids content: 100.0 %
- 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity: No further relevant information available.
- 10.2 Chemical stability:
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: No dangerous reactions known.
- 10.4 Conditions to avoid: No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
  - Acute toxicity: Fatal if swallowed.
  - Primary irritant effect:
    - Skin corrosion/irritation: Causes skin irritation.
    - Serious eye damage/irritation: Causes serious eye damage.
  - Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
  - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):
    - Germ cell mutagenicity: Based on available data, the classification criteria are not met.
    - Carcinogenicity: Based on available data, the classification criteria are not met.
  - Reproductive toxicity: Based on available data, the classification criteria are not met.
- 11.2 STOT-single exposure: Based on available data, the classification criteria are not met.
- 11.3 STOT-repeated exposure: Based on available data, the classification criteria are not met.
- 11.4 Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- 12.1 Toxicity:
  - Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability: No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA UN2810

14.2 UN proper shipping name
ADR 2810 TOXIC LIQUID, ORGANIC, N.O.S. (cisplatin)
IMDG TOXIC LIQUID, ORGANIC, N.O.S. (cisplatin)
IATA Toxic, liquids, organic, n.o.s. (cisplatin)

14.3 Transport hazard class(es)
ADR, IMDG, IATA

Class 6.1 Toxic substances.
Label 6.1

14.4 Packing group
ADR, IMDG, IATA II

14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user
Warning: Toxic substances.
Danger code (KeMler): 60
EMS Number: F-A,S-A
Stowage Category B
Stowage Code SW2 Clear of living quarters.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.
Trade name: PLATINUM BLUE

- Transport/Additional information:
  - ADR
  - Limited quantities (LQ) 100 ml
  - Excepted quantities (EQ) Code: E4
    - Maximum net quantity per inner packaging: 1 ml
    - Maximum net quantity per outer packaging: 500 ml
  - Transport category 2
  - Tunnel restriction code D/E

- IMDG
  - Limited quantities (LQ) 100 ml
  - Excepted quantities (EQ) Code: E4
    - Maximum net quantity per inner packaging: 1 ml
    - Maximum net quantity per outer packaging: 500 ml

- UN "Model Regulation":
  - UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (CISPLATIN), 6.1, II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I Substance is not listed.
  - Seveso category H2 ACUTE TOXIC
  - Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
  - Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
  - 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Abbreviations and acronyms:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - VOC: Volatile Organic Compounds (USA, EU)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Acute Tox. 2: Acute toxicity, Hazard Category 2
  - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  - Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

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