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| Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements. | | U.S. Department of Labor Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072 | | | |
| IDENTITY (As Used on Label and List) Copper Plating Pen PL-1010 | | <i>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</i> | | | |
| Section I | | | | | |
| Manufacturer's Name Hunter Products, Inc. | | Emergency Telephone Number (908) 526-8440 | | | |
| Address (Number, Street, City, State, and Zip Code) 792 Partridge Drive, P.O. Box 6795 | | Telephone Number for Information (908) 526-8440 | | | |
| Bridgewater, NJ 08807 | | Date Prepared 01/02/11 | | | |
| | | Signature of Preparer (optional) | | | |
| Section II – Hazardous Ingredients/Identity Information | | | | | |
| Hazardous Components (Specific Chemical Identity: Common Name(s)) | | OSHA PEL | ACGIH TLV | Other Limits Recommended | % (optional) |
| Cupric Pyrophosphate | | 0.1mg/m ³ | N.A. | | 10% |
| Ammonia Water | | N.A. | 50 ppm. | | 15% |
| Citric Acid | | N.A. | N.A. | | 13.5% |
| Aqua Pura | | N.A. | N.A. | | 61.5% |
| | | | | | |
| Cupric Pyrophosphate CAS # 10102-90-6 | | | | | |
| Ammonia Water CAS# 1336-21-6 | | | | | |
| Citric Acid CAS# 77-92-9 | | | | | |
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| Section III – Physical/Chemical Characteristics | | | | | |
| Boiling Point | | ≈ 212°F | Specific Gravity (H ₂ O = 1) | | N.A. |
| Vapor Pressure (mm Hg.) | | N.A. | Melting Point | | N.A. |
| Vapor Density (AIR = 1) | | N.A. | Evaporation Rate (Butyl Acetate = 1) | | N.A. |
| Solubility in Water | | Complete | | | |
| Appearance and Odor | | Blue, odorless solution | | | |
| Section IV – Fire and Explosion Hazard Data | | | | | |
| Flash Point (Method Used) | | Flammable Limits | | LEL | UEL |
| N.A. | | N.A. | | N.A. | N.A. |
| Extinguishing Media | | N.A. | | | |
| Special Fire Fighting Procedures | | N.A. | | | |
| Unusual Fire and Explosion Hazards | | None | | | |
| (Reproduce locally) | | OSHA 174, Sept. 1985 | | | |

| Section V – Reactivity Data | | | |
|---|--|----------------------------|--|
| Stability | Unstable | | Conditions to Avoid Exposure to high temperature. |
| | Stable | X | |
| Incompatibility (<i>Materials to Avoid</i>) Strong oxidizers (acids) | | | |
| Hazardous Decomposition or Byproducts N.A. | | | |
| Hazardous Polymerization | May Occur | | Conditions to Avoid N.A. |
| | Will Not Occur | N.A. | |
| Section VI – Health Hazard Data | | | |
| Route(s) of Entry: | Inhalation? N.A. | Skin? X | Ingestion? X |
| Health Hazards (<i>Acute and Chronic</i>) Mildly caustic. | | | |
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| Carcinogenicity: | NTP? N.A. | IARC Monographs? N.A. | OSHA Regulated? N.A. |
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| Signs and Symptoms of Exposure Mild burning sensation if ingested. Possible mild rash upon prolonged skin exposure. | | | |
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| Medical Conditions Generally Aggravated by Exposure N.A. | | | |
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| Emergency and First Aid Procedures For skin or eye contact flush thoroughly with water. If ingested, dilute with 3-4 glasses of water or milk. | | | |
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| Section VII – Precautions for Safe Handling and Use | | | |
| Steps to Be Taken in Case Material is Released or Spilled Use standard clean-up procedures with water. | | | |
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| Waste Disposal Method Dispose in accordance with local regulations. | | | |
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| Precautions to Be Taken in Handling and Storing Store in cool, dry location. Avoid accidental ingestion or skin contact. | | | |
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| Other Precautions N.A. | | | |
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| Section VII – Control Measures | | | |
| Respiratory Protection (<i>Specify Type</i>) N.A. | | | |
| Ventilation Moderate ventilation. | Local Exhaust N.A. | Special N.A. | |
| | Mechanical (<i>General</i>) Moderate ventilation. | Other N.A. | |
| Protective Gloves Optional | | Eye Protection Optional | |
| Other Protective Clothing or Equipment N.A. | | | |
| Work/Hygienic Practices Wash hands after use and before eating or smoking. | | | |