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|---|--|--|---|--------------------------|--------------|
| <b>Material Safety Data Sheet</b><br>May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements. |  | <b>U.S. Department of Labor</b><br>Occupational Safety and Health Administration<br>(Non-Mandatory Form)<br>Form Approved<br>OMB No. 1218-0072         |   |                          |              |
| <b>IDENTITY (As Used on Label and List)</b><br>Tin Plating Pen PL-1012  |  | <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> |   |                          |              |
| <b>Section I</b>  |  |  |   |                          |              |
| Manufacturer's Name<br>Hunter Products, Inc.  |  | Emergency Telephone Number<br>(908) 526-8440   |   |                          |              |
| Address (Number, Street, City, State, and Zip Code)<br>792 Partridge Drive, P.O. Box 6795   |  | Telephone Number for Information<br>(908) 526-8440   |   |                          |              |
| Bridgewater, NJ 08807   |  | Date Prepared<br>01/02/11  |   |                          |              |
|   |  | Signature of Preparer (optional)   |   |                          |              |
| <b>Section II – Hazardous Ingredients/Identity Information</b>  |  |  |   |                          |              |
| Hazardous Components (Specific Chemical Identity: Common Name(s))   |  | OSHA PEL   | ACGIH TLV                               | Other Limits Recommended | % (optional) |
| Tin Sulfate   |  | N.A.   | 2mg/m <sup>3</sup>                      |                          | 6%           |
| Ammonia Water   |  | N.A.   | 50 ppm.                                 |                          | 13.5%        |
| Citric Acid   |  | N.A.   | N.A.                                    |                          | 12%          |
| Aqua Pura   |  | N.A.   | N.A.                                    |                          | Balance      |
|   |  |  |   |                          |              |
|   |  |  |   |                          |              |
| A low concentration aqueous solution.   |  |  |   |                          |              |
| Tin Sulfate CAS # 7488-55-3   |  |  |   |                          |              |
| Ammonia Water CAS# 1336-21-6  |  |  |   |                          |              |
| Citric Acid CAS# 77-92-9  |  |  |   |                          |              |
| Aqua Pura   |  |  |   |                          |              |
|   |  |  |   |                          |              |
| <b>Section III – Physical/Chemical Characteristics</b>  |  |  |   |                          |              |
| Boiling Point   |  | ≈ 212°F  | Specific Gravity (H <sub>2</sub> 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   |  | Odorless and colorless.  |   |                          |              |
| <b>Section IV – Fire and Explosion Hazard Data</b>  |  |  |   |                          |              |
| 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     |              |

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