MSDS Document

Product  ProTeam® METAL MAGIC

1. Chemical Product and Company Identification

Trade Name of this Product  ProTeam® METAL MAGIC
MSDS ID  MSDS2400
Manufacturer
Haviland Consumer Products, Inc.
421 Ann Street N.W.
Grand Rapids, MI 49504

Phone Number
(616) 361-6691
Emergency Phone
CHEMTREC (800) 424-9300
CHEMTREC International (703) 527-3887
Revision Date  00/00/00

2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Weight %</th>
<th>ACGIH TLV</th>
<th>PEL</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1-Hydroxyethylidene)di</td>
<td>2809-21-4</td>
<td>1 mg/m3</td>
<td>1 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>phosphonic acid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Hazard Identification

Emergency Overview
Avoid inhalation of mists or vapors. Corrosive to eyes, irritating to skin and respiratory system.

Health Effects
Eye or skin contact may cause mild to severe irritation. Inhalation may cause irritation or corrosion of mucous membranes and the lungs.

Carcinogenicity
None of the components present in this material are listed by IARC or NTP as a carcinogen.

Reproductive Effects
None known

Routes of Entry
Inhalation, Ingestion, Skin or Eye Contact
4. First Aid Information

Eye Contact
Flush immediately with plenty of water for at least 15 minutes, get medical attention.

Skin Contact
Wash with soap and water. Remove contaminated clothing. See a physician if irritation occurs.

Inhalation
Fresh air should alleviate any respiratory discomfort. If breathing difficulties develop or persist, get medical attention.

Ingestion
Call a physician immediately. Do not induce vomiting. Dilute by drinking water or milk. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flash Point
> 212°F

Extinguishing Media
Water spray, foam, carbon dioxide, dry chemical

Special Fire Fighting Procedures
Fire fighters should use self-contained breathing apparatus and full protective clothing. Use water spray to cool fire exposed containers.

Unusual Fire Hazard
None known.

6. Accidental Release Measures

Spill and Leak Procedures
Block any potential routes to water systems. Recover as much of the pure product as possible into appropriate containers. Use absorbent to collect spill or leak residue. Follow all local, state and federal regulations.

7. Handling and Storage

Handling Procedures
Do not get in eyes, on skin, or on clothing. Wear eye protection and protective clothing. Wash thoroughly after handling.

Storage Procedures
Keep containers tightly closed when not in use and protect from damage. Store in a cool, well-ventilated area.
8. Exposure Controls and Personal Protection

Engineering Controls
Provide dilution ventilation to control vapor and/or mist level.

Eye Protection
Wear chemical goggles; face shield (if splashing is possible).

Protective Gloves
Wear chemical resistant gloves, such as rubber, neoprene, or nitrile.

Respiratory Protection
If ventilation is not sufficient to effectively prevent buildup of vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Other Protective Equipment
A safety shower and eye bath should be available. Use an impervious body covering and boots.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.124</td>
</tr>
<tr>
<td>Color/Appearance</td>
<td>Clear, colorless to pale yellow liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild, vinegar-like odor</td>
</tr>
<tr>
<td>pH</td>
<td>&lt; 2 (1% Solution)</td>
</tr>
<tr>
<td>Boiling/Cond. Point</td>
<td>&gt; 100°C (&gt; 212°F)</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>No Information Available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Complete</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No Information Available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>17 mmHg @ 20°C (68°F)</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Chemical Stability
 Stable

Conditions to Avoid
None known

Incompatible Materials
This product may react with strong alkalies and strong oxidizing agents.

Hazardous Decomposition Products
Oxides of phosphorus and carbon, acids of phosphorus

Hazardous Polymerization
Will not occur.

11. Toxicological Information

ACUTE EFFECTS:
Oral LD50: 2,000 mg/kg  
Dermal LD50: 10,000 mg/kg

12. Ecological Information

No information available.

13. Disposal Considerations

Waste Disposal
Dispose of waste in accordance with all federal, state, and local regulations.

14. Transportation Information

DOT Shipping Name
Corrosive liquid, acidic, organic, n.o.s. ((1-Hydroxyethylidene)diphosphonic acid)

Hazard Class
8, Corrosive

UN Number
UN3265

Packing Group
PG II

NOTE: Corrosive materials in Packing Group II, in inner packagings not over 1.0 L (0.3 gallon) for liquids or 1.0 kg (2.2 pounds) for solids, packed in strong outer packagings, may be renamed "Consumer Commodity" and reclassed as ORM-D material.

15. Regulatory Information

TSCA
Hazardous Component(s) subject to reporting on the TSCA List.

16. Other Information

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

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