

MSDS Document

Product METAL MIRACLE

1. Chemical Product and Company Identification

Trade Name of this Product METAL MIRACLE

MSDS ID MSDS2289

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

Health:	2
Fire:	1
Reactivity:	1
Specific	

2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %	ACGIH TLV	PEL	STEL
(1-Hydroxyethylidene)di phosphonic acid	2809-21-4		1 mg/m ³	1 mg/m ³	

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

Physical State	Liquid
Specific Gravity	1.24
Color/Appearance	Clear, colorless to pale yellow liquid
Odor	Mild, vinegar-like odor
pH	< 2 (1% Solution)
Boiling/Cond. Point	> 100°C (> 212°F)
Melting/Freezing Point	No Information Available
Solubility	Complete
Vapor Density	No Information Available
Vapor Pressure	17 mmHg @ 20°C (68°F)

10. Stability and Reactivity

Chemical Stability

Stable

Conditions to Avoid

None known

Incompatible Materials

This product may react with strong alkalis 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 reclassified 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.

Disclaimer

Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be held liable (regardless of fault) to the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.

