

# Material Safety Data Sheet



## RUST AND SCALE CONTROL

---

### SECTION I - IDENTIFICATION

---

MANUFACTURER'S NAME .....Haviland Consumer Products Inc.  
MANUFACTURER'S ADDRESS .....421 Ann St., NW, Grand Rapids, MI 49504  
PHONE NUMBER..... (616) 361-6691  
EMERGENCY PHONE NUMBER .....CHEMTREC (800) 424-9300  
EFFECTIVE DATE.....7/16/04  
TRADE NAME.....**RUST AND SCALE CONTROL**  
CHEMICAL FAMILY.....Miscellaneous Blend

---

### SECTION II - HAZARDOUS INGREDIENTS

---

HAZARDOUS INGREDIENTS	OSHA PEL	TLV (Units)	CAS NUMBER
(1-Hydroxyethylidene-1) 1-Diphosphonic Acid	Not Established	Not Established	2809-21-4

---

### SECTION III - PHYSICAL DATA

---

BOILING POINT .....>212°F  
FREEZING POINT ..... No Information Available  
VAPOUR PRESSURE ..... No Information Available  
VAPOUR DENSITY (air=1) ..... No Information Available  
SOLUBILITY IN H<sub>2</sub>O..... Completely  
ODOUR AND APPEARANCE ..... Clear, colorless to pale yellow liquid; Mild vinegar-like odor.  
SPECIFIC GRAVITY ..... 1.24 @ 68°F  
pH..... 1% Solution: <2

---

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

---

FLASHPOINT AND METHOD OF DETERMINATION .....>212oF  
LOWER EXPLOSIVE LIMIT (% by Volume) ..... Not Applicable  
UPPER EXPLOSIVE LIMIT (% by Volume) ..... Not Applicable  
MEANS OF EXTINCTION..... Water fog, carbon dioxide, foam, dry chemical.  
SPECIAL FIRE FIGHTING PROCEDURES..... Self contained breathing apparatus is required. Water spray may be used to cool containers.  
UNUSUAL FIRE HAZARD.....None Currently Known

---

### SECTION V - HEALTH HAZARD DATA

---

CARCINOGENICITY, REPRODUCTIVE EFFECTS ..... None  
NTP?..... No  
IARC MONOGRAPHS?..... No  
OVER EXPOSURE EFFECTS ..... Irritation to eyes.  
PRIMARY ROUTE (S) OF ENTRY ..... Inhalation; Eye Contact  
SPECIFIC FIRST AID PROCEDURES ..... In case of eye contact: Flush immediately with plenty of water for at least 15 minutes and get medical attention; For skin, wash thoroughly with soap and water; wash contaminated clothing before reuse. If inhaled: Remove to fresh air. If ingested: DO NOT INDUCE VOMITING. Rinse with copious amounts of milk or water, first. Irrigate

---

# Material Safety Data Sheet

EXPOSURE AGGRAVATED MEDICAL  
CONDITIONS

esophagus and dilute stomach contents by slowly giving one or two  
glasses of water or milk. Seek medical attention.  
None Currently Known

---

---

## SECTION VI - REACTIVITY DATA

---

---

CHEMICAL STABILITY ..... Stable  
CONDITIONS TO AVOID ..... Avoid contact with concentrated caustic; will result in evolution of heat.  
INCOMPATIBLE MATERIALS ..... Strong alkali, strong oxidizers  
HAZARDOUS DECOMPOSITION PRODUCTS ..... Oxides of phosphorus and carbon, acids of phosphorus  
HAZARDOUS POLYMERIZATION ..... Will Not Occur  
POLYMERIZATION AVOID ..... Not Applicable

---

---

## SECTION VII - SPILL OR LEAK PROCEDURE

---

---

LEAK AND SPILL PROCEDURES ..... Flush with water or neutralize with lime or soda ash and flush to sewer.  
WASTE DISPOSAL ..... Comply with all federal, state and local regulations.

---

---

## SECTION VIII - SPECIAL PROTECTION

---

---

RESPIRATORY PROTECTION ..... None Required for Normal Use  
VENTILATION ..... None Required for Normal Use  
PROTECTIVE GLOVES ..... Rubber or other impervious materials.  
EYE PROTECTION ..... Chemical splash proof goggles.  
OTHER PROTECTIVE EQUIPMENT ..... A safety shower and eye bath should be available. For operations where spills  
or splashing may occur, use an impervious body covering and boots.  
HANDLING PROCEDURES AND EQUIPMENT ..... Store in cool, dry, well ventilated area.

---

---

## SECTION IX - SPECIAL PRECAUTIONS

---

---

HAZARD CLASS ..... Corrosive, 8, PG II  
DOT SHIPPING NAME ..... CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (1-Hydroxyethylidene)  
Diphosphonic Acid)  
UN NUMBER ..... UN3265  
REPORTABLE QUANTITY (RQ) ..... N/A

---

---

REFERENCES

ZZ1RTSCL  
HMIS H-2 F-1 R-1