

# Material Safety Data Sheet



Acid Set

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## SECTION I - IDENTIFICATION

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MANUFACTURER'S NAME .....Haviland Consumer Products, Inc.  
MANUFACTURER'S ADDRESS .....421 Ann St., N.W., Grand Rapids, MI 49504  
PHONE NUMBER..... (616) 361-6691  
EMERGENCY PHONE NUMBER .....CHEMTREC (800) 424-9300  
EFFECTIVE DATE.....5/26/04  
TRADE NAME.....**Acid Set**  
CHEMICAL FAMILY.....Acid Blend

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## SECTION II - HAZARDOUS INGREDIENTS

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HAZARDOUS INGREDIENTS	OSHA PEL	TLV (Units)	CAS NUMBER
(1-Hydroxyethylidene)diphosphonic acid	N/A	N/A	2809-21-4
Ethoxylated aliphatic amines	N/A	N/A	N/A

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## SECTION III - PHYSICAL DATA

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BOILING POINT ..... Not Determined  
FREEZING POINT ..... Not Determined  
VAPOUR PRESSURE ..... Not Determined  
VAPOUR DENSITY (air=1) ..... Not Determined  
SOLUBILITY IN H<sub>2</sub>O..... Completely  
ODOUR AND APPEARANCE ..... Light Yellow Liquid  
SPECIFIC GRAVITY ..... 1.02  
pH..... Approx. 2

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## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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FLASHPOINT AND METHOD OF DETERMINATION .....None  
LOWER EXPLOSIVE LIMIT (% by Volume) ..... Not Applicable  
UPPER EXPLOSIVE LIMIT (% by Volume) ..... Not Applicable  
MEANS OF EXTINCTION.....Dry chemical, carbon dioxide, water fog and foam.  
SPECIAL FIRE FIGHTING PROCEDURES.....Wear NIOSA/MSHA approved SCBA and full protective equipment.  
UNUSUAL FIRE HAZARD.....Toxic gases will form upon combustion.

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## SECTION V - HEALTH HAZARD DATA

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CARCINOGENICITY, REPRODUCTIVE EFFECTS ..... None  
NTP? ..... No  
IARC MONOGRAPHS? ..... No  
OVER EXPOSURE EFFECTS ..... Corrosive to eyes, irritating to skin and respiratory tract.  
PRIMARY ROUTE(S) OF ENTRY ..... Skin and Eye Contact, and Inhalation  
SPECIFIC FIRST AID PROCEDURES ..... In case of contact: Immediately flush eyes and skin with plenty of water for at least 15 minutes. For eyes get medical attention. If inhaled: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention. Ingestion: Do not induce vomiting. Call a Physician Immediately.  
EXPOSURE AGGRAVATED MEDICAL CONDITIONS ..... None Currently Known

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## SECTION VI - REACTIVITY DATA

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CHEMICAL STABILITY ..... Stable  
CONDITIONS TO AVOID ..... Not Applicable  
INCOMPATIBLE MATERIALS ..... Strong Oxidizers  
HAZARDOUS DECOMPOSITION PRODUCTS ..... Oxides of phosphorus and carbon, acids of phosphorus, ammonia and volatile hydrocarbons.  
HAZARDOUS POLYMERIZATION ..... Will Not Occur  
POLYMERIZATION AVOID ..... Not Applicable

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## SECTION VII - SPILL OR LEAK PROCEDURE

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LEAK AND SPILL PROCEDURES ..... Contain spill immediately with dry-absorbent material. Transfer liquid and solid diking material to separate suitable containers for disposal. Flush to approved sanitary sewers.  
WASTE DISPOSAL ..... Dispose of spilled or waste material, contaminated soil and other contaminated material in licensed landfill or treatment facility in accordance with all federal, state and local regulations.

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## SECTION VIII - SPECIAL PROTECTION

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RESPIRATORY PROTECTION ..... If misting occurs, a NIOSH/MSHA approved respirator may be required.  
VENTILATION ..... Provide dilution ventilation to control vapor and/or mist level.  
PROTECTIVE GLOVES ..... Rubber or other impervious material.  
EYE PROTECTION ..... Splash proof chemical goggles.  
OTHER PROTECTIVE EQUIPMENT ..... For operations where spills or splashing may occur, use an impervious body covering and boots. A safety shower and eye bath should be available.  
HANDLING PROCEDURES AND EQUIPMENT ..... Keep container closed. Store in a cool, well-ventilated place away from incompatible materials. Protect material from direct sunlight.

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## SECTION IX - SPECIAL PRECAUTIONS

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HAZARD CLASS ..... Corrosive, 8, PG II  
DOT SHIPPING NAME ..... Corrosive Liquid, N.O.S. ((1-hydroxyethylidene) diphosphonic acid & ethoxylated aliphatic amines)  
UN NUMBER ..... UN1760  
REPORTABLE QUANTITY (RQ) ..... Not established.

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## REFERENCES

Acid Set  
HMIS; H=1, F=0, R=0