

Material Safety Data Sheet



Acid Set

SECTION I - IDENTIFICATION

MANUFACTURER'S NAMEHaviland Consumer Products, Inc.
MANUFACTURER'S ADDRESS421 Ann St., N.W., Grand Rapids, MI 49504
PHONE NUMBER..... (616) 361-6691
EMERGENCY PHONE NUMBERCHEMTREC (800) 424-9300
EFFECTIVE DATE.....5/26/04
TRADE NAME.....**Acid Set**
CHEMICAL FAMILY.....Acid Blend

SECTION II - HAZARDOUS INGREDIENTS

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

SECTION III - PHYSICAL DATA

BOILING POINT Not Determined
FREEZING POINT Not Determined
VAPOUR PRESSURE Not Determined
VAPOUR DENSITY (air=1) Not Determined
SOLUBILITY IN H₂O..... Completely
ODOUR AND APPEARANCE Light Yellow Liquid
SPECIFIC GRAVITY 1.02
pH..... Approx. 2

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATIONNone
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

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

SECTION VI - REACTIVITY DATA

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

SECTION VII - SPILL OR LEAK PROCEDURE

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.

SECTION VIII - SPECIAL PROTECTION

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.

SECTION IX - SPECIAL PRECAUTIONS

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

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