MATERIAL SAFETY DATA SHEET

RUST AND SCALE CONTROL

SECTION I - IDENTIFICATION

MANUFACTURER'S NAME........... Haviland Consumer Products Incorporated
ADDRESS (STREET,CITY,STATE,ZIP) 421 Ann St., N.W., Grand Rapids, MI 49504
PHONE NUMBER.................. (616) 361-6691
EMERGENCY PHONE NUMBER........ CHEMTREC (800) 424-9300
EFFECTIVE DATE.................. 4/4/99
TRADE NAME.................... RUST AND SCALE CONTROL
CHEMICAL FAMILY................. Miscellaneous Blend

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS OSHA/PEL ACGIH/TLV (Units) PROD. CAS #

(1-Hydroxyethylidene-1) Not Not 2809-21-4
1-Diphosphonic Acid Established Established

SECTION III - PHYSICAL DATA

BOILING POINT.................... >212°F
FREEZING POINT................... No Information Available
VAPOR PRESSURE (mm Hg)........... No Information Available
VAPOR DENSITY (Air=1)............ No Information Available
SOLUBILITY IN H2O................. Completely
APPEARANCE/ODOR.................. Clear, colorless to pale yellow liquid; Mild vinager-like odor.
SPECIFIC GRAVITY (H2O=1)......... 1.24 @ 68°F
PH.................................. 1% Solution: <2

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT...................... >212°F
LOWER EXPLOSIVE LIMIT (% by Volume) Not Applicable
UPPER EXPLOSIVE LIMIT (% by Volume) Not Applicable
EXTINGUISH MEDIA.................. 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.................. None
IUP......................... No
IARC.......................... No

01/20/2000
MATERIAL SAFETY DATA SHEET

RUPT AND SCALE CONTROL

OVER EXPOSURE EFFECTS ............ Irritation to eyes.
PRIMARY ROUTE(S) OF ENTRY....... Inhalation; Eye Contact
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
                                  esophagus and dilute stomach contents by
                                  slowly giving one or two glasses of water
                                  or milk. Seek medical attention.

EXPOSURE AGGRAVATING MEDICAL CONDITIONS None Currently Known

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

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SECTION VII - SPILL OR LEAK PROCEDURE
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FOR SPILL ........................... Flush with water or neutralize with lime or
                                   soda ash and flush to sewer.
WASTE DISPOSAL METHOD ........ Comply with all federal, state and local
                                 regulations.

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SECTION VIII - SPECIAL PROTECTION
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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 AND STORAGE .......... Store in cool, dry, well ventilated area.

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SECTION IX - SPECIAL PRECAUTIONS
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HAZARD CLASS ..................... Corrosive, 6, PG II
MATERIAL SAFETY DATA SHEET
RUST AND SCALE CONTROL

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

== References ==

REFERENCES ZZ1RTSCL
HMIS H-2 F-1 R-1

01/20/2000