MATERIAL SAFETY DATA SHEET

NON-CHLORINE SHOCK (POTASSIUM)

"Wipe Out"

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.............. 6/23/99
TRADE NAME.................. NON-CHLORINE SHOCK (POTASSIUM)
CHEMICAL FAMILY............... Inorganic Acid

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS OSHA/PEL ACGIH/TLV (Units) PROD. CAS #
Potassium...................... Not Established Not Established 10059-23-5
Potassium Monosulfate......... Not Established Not Established 7646-93-7
Potassium Bisulfate........... Not Established Not Established 7778-80-5
Potassium Sulfate............. Not Established Established

SECTION III - PHYSICAL DATA

BOILING POINT.................. Decomposes
FREEZING POINT................ Decomposes
VAPOR PRESSURE (mm Hg)........ Nil
VAPOR DENSITY (Air=1)......... Non-Volatile
SOLUBILITY IN H20.............. 25.6% at 20°C
APPEARANCE/ODOR.............. White Granules or Powder; Odorless
SPECIFIC GRAVITY (H20=1)..... 1.1-1.4
PH.................................. 1% Sol. = 2.3, 3% Sol. = 2.0

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT.................... Not Flammable
LOWER EXPLOSIVE LIMIT (% by Volume) Not Applicable
UPPER EXPLOSIVE LIMIT (% by Volume) Not Applicable
EXTINGUISH MEDIA............... As for Surrounding Fires
SPECIAL FIRE FIGHTING PROCEDURES... Will release oxygen when heated, intensifying a fire. Acidic mist may be present; self contained breathing apparatus should be used.

SPECIAL FIRE FIGHTING PROCEDURES... Grinding or intensive mixing may generate sufficient heat to fuse material and cause ignition of oxidizable material present.
MATERIAL SAFETY DATA SHEET

NON-CHLORINE SHOCK (POTASSIUM)

SECTION V - HEALTH HAZARD DATA

CARCINOGENICITY ................ None
NTP ................................ No
IARC ............................... No

OVER EXPOSURE EFFECTS ........ Irritation to eyes, skin, nose and throat.
PRIMARY ROUTE(S) OF ENTRY .... Eye and Skin Contact
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. Wash contaminated clothing before reuse. If inhaled: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. If swallowed: Do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

EXPOSURE AGGRAVATED MEDICAL CONDITIONS Individuals with preexisting diseases of the skin or gastrointestinal tract may have increased susceptibility to the toxicity of excessive exposures.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY .......... Stable
CONDITIONS TO AVOID .......... Heat, Alkaline Conditions
INCOMPATIBLE MATERIALS ...... Mixed with compounds containing halides or active halogens can cause release of the respective halogen if moisture is present. Mixing with chlorides can cause release of hydrogen cyanide gas. Mixing with heavy metal salts causes decomposition.

DECOMPOSITION PRODUCTS ...... Decomposes when heated or dampened, releasing oxygen and heat of decomposition.

HAZARDOUS POLYMERIZATION ...... Will Not Occur
POLYMERIZATION AVOID .......... Not Applicable

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL .......................... Sweep up. Flush area with low pressure water.
MATERIAL SAFETY DATA SHEET

NON-CHLORINE SHOCK (POTASSIUM)

WASTE DISPOSAL METHOD........ Comply with all federal, state and local regulations. Solutions > 3% by weight have a pH < 2.0, and may be a RCRA hazardous waste upon disposal. If approved, flush to sewer or waste treatment plant. Large quantities should be neutralize with soda ash.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION........ A NIOSH approved respirator may be permissible under certain circumstances when airborne concentrations are expected to exceed exposure limits. None needed under normal circumstances.

VENTILATION...................... Use sufficient ventilation to keep employee exposure below recommended limits.

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......... Avoid breathing dust. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Store in a cool, dry, well-ventilated area away from heat sources such as light fixtures or space heaters. Keep packages dry. Do not store with combustibles. Storage of large quantities can lead to ignition of combustibles.

SECTION IX - SPECIAL PRECAUTIONS

HAZARD CLASS.................. Corrosive, B, PG II or ORM-D IF < 2.2 LBS
DOT SHIPPING NAME............. Corrosive Solid, Acidic, Inorganic, N.O.S. (Monopersulfate Compound)

UN NUMBER................... UN3260 or ORM-D
REPORTABLE QUANTITY (RQ)..... Not Listed

REFERENCES HMIS: H-2,F-0,R-1

ZZ10XSHK

05/10/2000