

Material Safety Data Sheet



SPA RUST & SCALE CONTROL

SECTION I - IDENTIFICATION

MANUFACTURER'S NAME **Haviland Consumer Products Incorporated**
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 1/3/00
TRADE NAME **SPA RUST & SCALE CONTROL**
CHEMICAL FAMILY Acidic Solution

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	OSHA PEL	TLV (Units)	CAS NUMBER
2-Phosphonobutane-1, 2,4-Tricarboxylic Acid	Not Established	Not Established	37971-36-1

SECTION III - PHYSICAL DATA

BOILING POINT 103oC
FREEZING POINT Not Established
VAPOUR PRESSURE Not Established
VAPOUR DENSITY (air=1) Not Established
SOLUBILITY IN H₂O Complete
ODOUR AND APPEARANCE Clear liquid; Very Slight Odor
SPECIFIC GRAVITY 1.06 @ 25oC
pH < 2

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATION Not Flammable
LOWER EXPLOSIVE LIMIT (% by Volume) Not Applicable
UPPER EXPLOSIVE LIMIT (% by Volume) Not Applicable
MEANS OF EXTINCTION Water spray, dry chemical, carbon dioxide or foam.
SPECIAL FIRE FIGHTING PROCEDURES Eliminate ignition source. Wear self contained breathing apparatus and complete personal protective equipment. Use water spray to cool fire, exposed structures and tanks, and to disperse vapor cloud if fire is not present.
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 and skin.
PRIMARY ROUTE(S) OF ENTRY Inhalation; 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. Ingestion: Do Not induce vomiting. Drink

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EXPOSURE AGGRAVATED MEDICAL
CONDITIONS

plenty of water to dilute stomach contents. Seek immediate medical attention.
None Currently Known

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY Stable
CONDITIONS TO AVOID Avoid contact with concentrated alkali; will result in the evolution of heat.
INCOMPATIBLE MATERIALS Avoid contact with strong alkalis, metal salts of sulfides and sulfites, strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS Thermal decomposition may emit highly toxic phosphines. CO, CO₂, and other by-products may also be formed.
HAZARDOUS POLYMERIZATION Will Not Occur
POLYMERIZATION AVOID Not Applicable

SECTION VII - SPILL OR LEAK PROCEDURE

LEAK AND SPILL PROCEDURES Use care to avoid falls. Wear chemical resistant, splash-proof eye protection and impervious clothing. Dike and contain spill with inert materials (sand, earth, etc) then transfer to separate containers for disposal. Keep spill out of municipal sewers and natural waterways. Contact authorities in the event of large spill. Obey all environmental regulations.
WASTE DISPOSAL Comply with all federal, state and local regulations. Containers retain vapor or product residue and can be dangerous.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION Avoid breathing vapor or mist.
VENTILATION Provide ventilation to minimize exposure. Use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.
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 Do not store in metal or aluminum containers. Store in cool, dry, well ventilated area.

SECTION IX - SPECIAL PRECAUTIONS

HAZARD CLASS Corrosive, 8, PG II or ORM-D
DOT SHIPPING NAME Corrosive Liquid, Acidic, organic, N.O.S. (Containing 2-Phosphonobutane-1,2,4-tricarboxylic acid)
UN NUMBER UN3265 or ORM-D
REPORTABLE QUANTITY (RQ) Not Listed

REFERENCES

CORROSIVE IRRITANT!! ZZSPARSC
HMIS H-2 F-0 R-1