

# Material Safety Data Sheet



## SUPER RUST & SCALE CONTROL

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### SECTION I - IDENTIFICATION

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MANUFACTURER'S NAME .....Haviland Consumer Products Inc.  
MANUFACTURER'S ADDRESS .....421 Ann St., NW, Grand Rapids, MI 49504  
PHONE NUMBER..... (616) 361-6691  
EMERGENCY PHONE NUMBER.....CHEMTREC (800) 424-9300  
EFFECTIVE DATE.....7/16/04  
TRADE NAME.....**SUPER RUST & SCALE CONTROL**  
CHEMICAL FAMILY.....Acidic Solution

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### SECTION II - HAZARDOUS INGREDIENTS

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

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### SECTION III - PHYSICAL DATA

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BOILING POINT ..... 103oC  
FREEZING POINT ..... Not Available  
VAPOUR PRESSURE..... Not Established  
VAPOUR DENSITY (air=1) ..... Not Established  
SOLUBILITY IN H2O..... Complete  
ODOUR AND APPEARANCE ..... Clear red liquid; Very Slight Odor  
SPECIFIC GRAVITY ..... 1.13 @ 25oC  
pH..... < 2

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### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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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

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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 ..... 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

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## SECTION VI - REACTIVITY DATA

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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 phosphates. CO, CO<sub>2</sub>, and other by-products may also be formed.  
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 ..... 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.

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## SECTION VIII - SPECIAL PROTECTION

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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.

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## SECTION IX - SPECIAL PRECAUTIONS

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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

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REFERENCES

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