

# Material Safety Data Sheet



## TILE AND LINER CLEANER

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### SECTION I - IDENTIFICATION

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MANUFACTURER'S NAME ..... **Haviland Products Company**  
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 ..... 4/11/95  
TRADE NAME ..... **TILE AND LINER CLEANER**  
CHEMICAL FAMILY ..... Mineral Acid

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### SECTION II - HAZARDOUS INGREDIENTS

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HAZARDOUS INGREDIENTS	OSHA PEL	TLV (Units)	CAS NUMBER
**Phosphoric Acid (37% by wt)	1 mg/m3 TWA	1 mg/m3 TWA	7664-38-2
**Sulfuric Acid (2% by wt)	1 mg/m3 TWA	1 mg/m3 TWA	7664-93-9
**Nitric Acid (1% by wt)	5 mg/m3 TWA	5 mg/m3 TWA	7697-37-2
**SEE NOTE UNDER "REFERENCES" AT END OF MSDS**	OSHAPEL	TLV	PCASNUM

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### SECTION III - PHYSICAL DATA

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BOILING POINT ..... Not Established  
FREEZING POINT ..... Not Available  
VAPOUR PRESSURE ..... 15.0 20oC  
VAPOUR DENSITY (air=1) ..... Not Established  
SOLUBILITY IN H2O ..... Completely  
ODOUR AND APPEARANCE ..... Pale Green Liquid; Odorless  
SPECIFIC GRAVITY ..... 1.28  
pH ..... Not Established

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### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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FLASHPOINT AND METHOD OF DETERMINATION ..... Will Not Burn  
LOWER EXPLOSIVE LIMIT (% by Volume) ..... Not Applicable  
UPPER EXPLOSIVE LIMIT (% by Volume) ..... Not Applicable  
MEANS OF EXTINCTION ..... As for Surrounding Fire.  
SPECIAL FIRE FIGHTING PROCEDURES ..... Wear self contained breathing apparatus. If heated to decomposition, product emits toxic phosphorus pentoxide fumes.  
UNUSUAL FIRE HAZARD ..... Phosphoric acid will not burn but can react with metals to liberate hydrogen gas that can form flammable or explosive mixtures with air.

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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, slightly toxic when inhaled or ingested. Causes redness and burns to exposed tissues.  
PRIMARY ROUTE(S) OF ENTRY ..... 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. If conscious, give large quantities of water to dilute. Call a Physician Immediately.  
EXPOSURE AGGRAVATED MEDICAL CONDITIONS ..... None Currently Known

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## SECTION VI - REACTIVITY DATA

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CHEMICAL STABILITY ..... Stable  
CONDITIONS TO AVOID ..... Not Applicable  
INCOMPATIBLE MATERIALS ..... Alkalies, many metals.  
HAZARDOUS DECOMPOSITION PRODUCTS ..... Toxic fumes of phosphorus pentoxide.  
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 ..... Wear acid vapor respirator and gloves. Soak up small spills with sand, earth, or absorbent. Scoop up and place in clean, dry, marked, lined steel containers. Neutralize with soda ash. Flush away residue with large quantities of water applied to entire spill area.  
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.

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## SECTION VIII - SPECIAL PROTECTION

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RESPIRATORY PROTECTION ..... Supplied air or self contained breathing apparatus with full facepiece.  
VENTILATION ..... To maintain vapors below limits.  
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 ..... Store away from heat and strong alkalies. Wear protective equipment during handling. Keep container closed when not in use. Never use pressure to empty. Do not store near organic or other readily oxidizable materials.

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## SECTION IX - SPECIAL PRECAUTIONS

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HAZARD CLASS ..... Corrosive, 8, PG III  
DOT SHIPPING NAME ..... PHOSPHORIC ACID, MIXTURE  
UN NUMBER ..... UN1805  
REPORTABLE QUANTITY (RQ) ..... 6,666lbs.

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## REFERENCES

TILICLNR **\*\*NOTE\*\*** Hazardous  
Component(s) subject to reporting under 40  
CFR 372 (SARA Title III, Sec. 313).