

Material Safety Data Sheet



STAINLESS STEEL CLEANER

SECTION I - IDENTIFICATION

MANUFACTURER'S NAMEHaviland Products Company
MANUFACTURER'S ADDRESS421 Ann St., NW, Grand Rapids, MI 49504
PHONE NUMBER..... (616) 361-6691
EMERGENCY PHONE NUMBERCHEMTREC (800) 424-9300
EFFECTIVE DATE.....7/16/04
TRADE NAME.....**STAINLESS STEEL CLEANER**
CHEMICAL FAMILY.....Miscellaneous Blend

SECTION II - HAZARDOUS INGREDIENTS

| HAZARDOUS INGREDIENTS | OSHA PEL | TLV (Units) | CAS NUMBER |
|--|-------------------------|-------------------------|------------|
| **Phosphoric Acid (51% by wt) | 1 mg/m ³ TWA | 1 mg/m ³ TWA | 7664-38-2 |
| **Dowanol DPM (Dipropylene Glycol Monoethyl Ether) (10% by wt) | 100ppm | 100ppm | 34590-94-8 |
| Nonylphenoxypoly (Ethyleneoxy) Ethanol | Not Established | Not Established | 9016-45-9 |

SECTION III - PHYSICAL DATA

BOILING POINT 230oF
FREEZING POINT -5oF
VAPOUR PRESSURE 6.5 @ 20oC
VAPOUR DENSITY (air=1) >1.0
SOLUBILITY IN H₂O Completely
ODOUR AND APPEARANCE Clear Liquid; Aromatic Sweet Odor
SPECIFIC GRAVITY 1.32
pH..... Not Established

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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 Media
SPECIAL FIRE FIGHTING PROCEDURES.....Wear self contained breathing apparatus. If heated to decomposition, product emits toxic fumes of phosphorus oxides.
UNUSUAL FIRE HAZARD.....Will liberate flammable hydrogen gas upon contact with many metal surfaces. Protect personnel against mist, vapor, or splashes.

SECTION V - HEALTH HAZARD DATA

CARCINOGENICITY, REPRODUCTIVE EFFECTS None
NTP?..... No
IARC MONOGRAPHS?..... No
OVER EXPOSURE EFFECTS Irritation, Burns (skin).
PRIMARY ROUTE (S) OF ENTRY Skin Contact
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,

Material Safety Data Sheet

EXPOSURE AGGRAVATED MEDICAL
CONDITIONS

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.
None Currently Known

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY Stable
CONDITIONS TO AVOID Not Applicable
INCOMPATIBLE MATERIALS Oxidizing materials, alkalis, many metals.
HAZARDOUS DECOMPOSITION PRODUCTS Toxic fumes of phosphorus pentoxide.
HAZARDOUS POLYMERIZATION Will Not Occur
POLYMERIZATION AVOID Not Applicable

SECTION VII - SPILL OR LEAK PROCEDURE

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 Incinerate in equipment designed to handle phosphorus oxides, or submit to an approved chemical disposal service. Follow all federal, state and local regulations.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION NIOSH/MSHA approved inorganic acid vapor respirator.
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 alkalis. Wear protective equipment during handling.

SECTION IX - SPECIAL PRECAUTIONS

HAZARD CLASS Corrosive, 8, PG III
DOT SHIPPING NAME PHOSPHORIC ACID, MIXTURE
UN NUMBER UN1805
REPORTABLE QUANTITY (RQ) 8300lbs.

REFERENCES

HMIS: H=3 F=0 R=1
ZZ1SSCLR
NOTE Hazardous Component(s) subject to reporting under 40 CFR 372 (SARA Title III, Sec. 313).