

MATERIAL SAFETY DATA SHEET

HAZARD RATING EHS

4-EXTREME
3-HIGH
2-MODERATE
1-ELIGHT
0-INSIGNIFICANT
*SEE SECTION IV

TOXICITY

REACTIVITY
SPECIAL

I. PRODUCT IDENTIFICATION

TRADE NAME: Edfred Porcelain Cleaner 63812

MANUFACTURER: Edfred Chemical Corporation Phone: 408-286-0493
1260 Yard Court, STE F
San Jose, CA 95133 Date: January 10, 2002

II. HAZARDOUS INGREDIENTS

| Chemical Names | CAS Numbers | % | Exposure Limits in Air | |
|---------------------|-------------|----|------------------------|--|
| | | | ACGM TLV | OTHER |
| Phosphoric Acid | 7664-38-2 | 15 | 1PPM | TWA-1mg/m ³ STEL 3mg/m ³ |
| Nonionic Surfactant | 68412-54-4 | 1 | NE | |
| Water | 7732-18-5 | 84 | NE | |

III. PHYSICAL PROPERTIES

Evaporation Rate (Water 1): 1 Formula: H₃PO₄ AND WATER
Vapor pressure (mm Hg): VERY LOW Boiling Point, (°F): 2130 F
Specific Gravity (H₂O = 1): 1.13 Vapor Density (AIR = 1): NOT KNOWN
Solubility in Water: INFINITE - SOME WATER WOULD EVAPORATE FROM ACID SOLUTION.
Appearance and Odor: LIGHT BLUE LIQUID - SASSAFRASSY ODOR

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point, (Method Used) NONFLAMMABLE

Flammable Limits in Air, Volume %: N/A Lower (LEL) N/A Upper (UEL) N/A

Fire Extinguishing Materials:

Water Spray Carbon Dioxide Foam Dry Chemical

Special Firefighting Procedures: CORROSIVE: PHOSPHORIC ACID - UNDER FIRE
CONDITIONS MAY GIVE IRRITATING PHOSPHOROUS OXIDE.

Unusual Fire and Explosion Hazards: IN CONTACT WITH METAL, WILL EVOLVE HYDROGEN
GAS WHICH IS FLAMMABLE WITH AIR.

V. REACTIVITY DATA

Stability: X Stable Unstable

Conditions to Avoid: OXIDIZERS (BLEACH)

Incompatibility (Materials to Avoid): OXIDIZERS (BLEACH) - METALS (HYDROGEN GAS MAY EVOLVE.)

Hazardous Decomposition Products or Byproducts: N/A

Hazardous Polymerization: May Occur X Will Not Occur

Conditions to Avoid: NONE

VI. HEALTH HAZARD DATA

Routes of Entry: X Inhalation? X Skin? X Ingestion?

Signs and Symptoms of Exposure: CORROSIVE - CAUSES BURNS. DO NOT GET IN EYES, ON SKIN, AVOID BREATHING MIST. INGESTION: SEVERE INTERNAL IRRITATION AND SEVERE BURNS OF MOUTH AND THROAT.

Carcinogenicity: NTP? NO IARC? NO OSHA? NO

Emergency and First Aid Procedures: FOR CONTACT WITH SKIN AND EYES, FLUSH WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE LARGE QUANTITY OF WATER. GET MEDICAL ATTENTION.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: FOR SMALL SPILLS: NEUTRALIZE SPILL WITH SODA ASH AND FLUSH AREA WITH COPIOUS AMOUNTS OF WATER. EXERCISE CAUTION, DISPOSE TO DRAIN AS PERMITTED BY LOCAL REGULATIONS.

Waste Disposal Method: LARGE SPILLS: SHOULD BE HANDLED ACCORDING TO A PRE-DETERMINED PLAN IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Precautions to be Taken in Handling and Storing: STORE IN COOL DRY AREA. CORROSIVE MATERIAL. PROTECT PACKAGE INTEGRITY.

Other Precautions: DO NOT MIX WITH BLEACH, HOUSEHOLD CLEANERS, OR ANY MATERIAL CONTAINING CHLORINE. KEEP OUT OF REACH OF CHILDREN.

VII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: NONE NEEDED **Protective Gloves:** RUBBER GLOVES

Ventilation: OKAY **Local Exhaust:** NO **Mechanical:** NO **Special:** NO **Other:**

Eye Protection: SAFETY GOGGLES **Other Protection:** NONE