

MATERIAL SAFETY DATA SHEET

Date Prepared: January 13, 2005

Infotrac.....(800) 535-5053

Prepared By: Stewart Holyk

U.C.I. Poison Control.....(714) 634-5988

GENERAL INFORMATION

Product

ENHANCE

Manufacturer

SUPERCO SPECIALTY PROD.
25041 ANZA DRIVE
VALENCIA, CA 91355
Phone: (661)775-8877
Fax: (661) 775-8884

NFPA RATING
0 = Non-Hazardous
1 = Slight Hazard
2 = Hazardous
3 = Extreme Hazard
4 = Deadly

HEALTH



Product Number

5014

Chemical Family

Acidic Cleaner / Descaler

DOT Classification

Corrosive Liquid, Toxic,
NOS, 8, UN2922, PGII
(Contains Sulfuric Acid & Hydrofluoric Acids)

SECTION 2 - HAZARDOUS INGREDIENTS

Chemical Name

CAS Number

% By Vol.

Exposure Limits in Air ACGIH (TLV) OSHA (PEL)

Sulfuric Acid 98%	7647-01-0	10.00%	2 PPM	2 PPM
Phosphoric Acid 75%	7664-38-2	5.00%	2 PPM	2 PPM
Hydrofluoric Acid 49%	7664-39-3	10.00%	2 PPM	2 PPM

SECTION 3 - HEALTH HAZARD DATA

Effects of Overexposure

- Skin:** When the concentrated form of this product comes in contact with the skin it may cause severe irritation and/or damage.
- Eyes:** When this product comes in contact with the eyes or eyelids it may cause severe irritation and/or damage to the eyes and immediate areas.
- Ingestion:** When concentrated solutions of this product are swallowed severe irritation and/or damage of the stomach and intestinal tract can occur.
- Inhalation:** Fumes from this product are generally considered irritating, and pose slight to moderate safety or health threat.

First Aid Procedures

- Skin:** If skin comes in contact with product: Flush exposed area with cool water for 15 minutes. Consult a physician if irritation persists.
- Eyes:** If this product comes in contact with eyes; flush eyes with luke warm water for 30 minutes and consult a physician immediately.
- Ingestion:** **DO NOT INDUCE VOMITING.** Have patient drink large amounts of milk or plain water. Consult a physician immediately.
- Inhalation:** Remove to clean atmosphere and consult physician immediately

Carcinogens

The hazardous ingredients contained in this product are NOT listed on the following regulatory lists of suspected carcinogens: Federal OSHA, National Toxicology Program (NTP), International Agency for Reasearch on Cancer (IARC), State of California - OSHA

SECTION 4 - SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill and Leak Control

- Small Spill / Leaks:** Flush area with water to an industrial sewer line.
- Large Spill / Leaks:** Contain spill with dikes of absorbant mateirals such as clay, sand, or vermiculate. This material is considered hazardous and must disposed of properly.

Waste Disposal

All hazardous waste must be solidified and disposed of in an EPA approved class one disposal facility. When disposing of chemicals contact local, state, and federal environmental agencies to fully understand the necessary regulations governing the disposal of chemical wastes.

SECTION 5 - FIRE AND EXPLOSION HAZARDS

Flashpoint: None **Testing Method:** N/A
Flammable Limits in Air: Non-Flammable
Upper Explosion Limits: N/A **Lower Explosion Limits:** N/A
Fire Extinguishing Materials: Water, Sand, CO₂, Dry Foam, Halon
Special Fire Fighting Materials: This product will not burn or support combustion.
Unusual Fire & Explosion Hazards: None
Hazardous Polymerization: Under fire conditions hazardous polymerization will not occur.

SECTION 6 - PHYSICAL DATA

Boiling Point:	212 ° F	Specific Gravity: (Water = 1.00):	1.12
Vapor Pressure:	Not Appl.	Percent Volatiles:	100.0%
Vapor Density:	Not Appl.	Evaporation Rate (Water = 1.00):	1.15
pH (Concentrate):	< 1.00	pH (1% Solution):	1.00

Solubility in Water: This product is 100% miscible in water.
Appearance and Odor: Clear liquid with an acidic odor.

SECTION 7 - PERSONAL PROTECTION INFORMATION

Respiratory Protection: None Required
Eye Protection: When handling any chemical product it is recommended that proper protection of the eyes be worn.
Protective Gloves: When handling any chemical product it is recommended that proper protection of the skin and hands be worn.
Other Equipment: None

SECTION 8 - SPECIAL PRECAUTIONS

- Chemicals can be hazardous if not respected. The use of proper equipment and procedures for handling chemicals are not only of benefit for their obvious uses, but can reduce the possibility of serious injury and lost time accidents.
- Keep this material away from high heat and observe proper housekeeping procedures.
- DO NOT mix chemicals unless instructed by qualified personnel.

SECTION 9 - FOOTNOTES

Sources:

- 1) Dangerous Properties of Industrial Materials; Sax , 6th Edition
- 2) Handbook of Toxic and Hazardous Chemicals and Carcinogens; Sittig, 2nd Edition
- 3) Condensed Chemical Dictionary; Hawley, 10th Edition
- 4) TLV's and Biological Exposure Indices for 1985-1986; ACGIH, 2nd Printing
- 5) Director's List of Hazardous Substances; State of California, 1st Printing
- 6) Title 29 CFR parts 1900 to 1910, Revised as of July 1, 1984
- 7) Documentation of TLV's and BEI's; ACGIH, 5th Edition
- 8) Guidelines for the selection of Chemical Protective Clothing; ACGIH, 2nd Printing
- 9) Emergency Response Guidebook; U.S. Department of Transportation, 1984 Edition

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