

SECTION 1 - MANUFACTURER INFORMATION

MANUF/DIST : CHEM-POWER MFG DIV/ FOSTER & CO., INC  
15 Wing Drive EMERGENCY PHONE.....: 973-267-4100  
Cedar Knolls PREPARATION/REVISION DATE: 02/14/02  
NJ 07927  
PREPARER/CONTACT: Gary Adams, Chemist  
LOCATION : Whs 1

TRADE NAME/SYNONYMS...: SUPER ANTHORIUM  
CHEMICAL NAME/SYNONYMS: Aluminum Cleaner and Rennovater  
CHEMICAL FAMILY.....: Acid Cleaning Solution  
FORMULA.....: Complex mixture  
PRODUCT CODE.....: 14-03

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS)

\*.....\*  
\* HEALTH..... 3 \*  
\* FLAMMABILITY.. 0 \*  
\* REACTIVITY.... 1 \*  
\* PROTECTION.... D \*  
\*.....\*

SECTION 2 - HAZARDOUS INGREDIENTS

THIS PRODUCT CONTAINS HAZARDOUS INGREDIENTS : YES

CHEMICAL/Common Name	CAS-Number	%	PEL-OSHA	TLV-ACGIH
*Hydrofluoric Acid, 70% Aqueous	7664-39-3	9	3 PPM	3 ppm
*2-Butoxyethanol	111-76-2	3	50 stel	25 ppm
Nonylphenoxypolyethoxyethanol	26027-38-3	<4	N/I	N/I
Water	7732-18-5	>80	None	None
**Super Anthorium (recommendation)	N/A	100	25 PPM	25 ppm

\*this ingredient is reportable under EPA  
SARA Title 111-please check applicable  
states for additional regulations.

THIS PRODUCT CONTAINS CARCINOGENS (NTP, IARC, or OSHA):NO

CHEMICAL/Common Name	CAS-Number	%	NTP	IARC	OSHA
N/A	N/A	N/A	N/A	N/A	N/A

SECTION 3 - HEALTH HAZARD DATA

HEALTH EFFECTS (Acute And Chronic)-  
This is a corrosive liquid with hazardous vapors. Can cause severe burns that may not be immediately painful or visible. Effects of overexposure can show up as much as 8 hours after the exposure episode. Vapors can cause damage to

lungs and respiratory system and pulmonary edema. Harmful if swallowed can cause burns to mucous membranes, esophagus and digestive tract linings.

PRIMARY ROUTES OF ENTRY-  
Skin, inhalation, eyes

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE-  
Respiratory disorders may be aggravated by exposure . Non-intact skin may be further irritated by exposure to this material.

EMERGENCY FIRST AID PROCEDURES-

SKIN OR EYES: Speed in removing Hydrofluoric Acid from skin or eyes is of primary importance. Immediately, within seconds of contact or suspected contact, flush or shower affected area with large amounts of water. Continue flushing for at least 15 minutes and keep flushing at 15 minute intervals. Alternately hold eyelids open to ensure thorough rinse. Use ice compresses while waiting for medical attention. Get medical attention immediately.  
INHALATION: Move to uncontaminated area. Call a physician. Administer oxygen as soon as possible.  
INGESTION: Do not induce vomiting. Immediately drink a large quantity of milk or water with added milk of magnesia. Call a physician immediately.

**SECTION 4 - CHEMICAL DATA**  
-----

BOILING POINT (F),...: 212 F	SPECIFIC GRAVITY (WATER=1).....: 1.01
VAPOR PRESSURE (mmHg): >30	PERCENT VOLATILE BY VOLUME (%): 93
VAPOR DENSITY (AIR=1): >1	EVAPORATION RATE (water =1): "1

SOLUBILITY IN WATER-  
Complete

APPEARANCE AND ODOR INFORMATION-  
Clear, orange liquid with penetrating, sour odor

**SECTION 5 - PHYSICAL HAZARD DATA**  
-----

FLASH POINT (Method Used): None                      FLAMMABLE LIMITS : Lel=N/A    UEL=N/A

EXTINGUISHING MEDIA-  
Not combustible

SPECIAL FIRE FIGHTING PROCEDURES-  
Use self-contained, positive pressure breathing apparatus for fires involving chemical products.

UNUSUAL FIRE AND EXPLOSION HAZARDS-  
Will react with many metals to liberate Hydrogen which is a flammable gas.

INCOMPATIBILITY (Materials To Avoid)-  
Zinc, Magnesium, reactive metals, Cyanides and Sulfides, strong Alkalies

HAZARDOUS DECOMPOSITION PRODUCTS-  
None known

WILL HAZARDOUS POLYMERIZATION OCCUR-  
Will not occur

CONDITIONS TO AVOID FOR POLYMERIZATION-  
None known

IS THE PRODUCT STABLE-  
Yes

CONDITIONS TO AVOID FOR STABILITY-  
Avoid temperature extremes.

**SECTION 6 - SPILL OR LEAK PROCEDURES**  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED-  
This product is toxic to fish. Wear protective clothing. Dike and contain spill. Shovel up into plastic containers for disposal as Hazardous Waste under RCRA. Neutralize area with baking soda or lime and rinse thoroughly,

WASTE DISPOSAL METHODS-  
Consult Federal, state and local authorities for appropriate regulations.

**SECTION 7 - EXPOSURE CONTROL INFORMATION**  
-----

VENTILATION-  
LOCAL EXHAUST: Good for TLV limit      MECHANICAL (General): N/A  
SPECIAL.....: N/A                              OTHER.....: N/A

RESPIRATORY PROTECTION-  
Acid gas canister approved by NIOSH if necessary

PROTECTIVE GLOVES-  
Rubber or impervious material

OTHER PROTECTIVE EQUIPMENT-  
Chemical face shield, hard hat, rubber apron and boots.

OTHER ENGINEERING CONTROLS-  
As necessary to keep exposure to a minimum

WORK PRACTICES-  
Keep non-essential personnel out of area. Take special care to keep protective equipment contamination free.

HYGIENIC PRACTICES-  
Never touch face with gloves that have contacted this material. Do not use in food handling areas or around foods. Wash hands before using lavatory when using this product.

**SECTION 8 - SPECIAL PRECAUTIONS**  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE-

Store at ambient temperatures. Keep containers closed when not in use.

MAINTENANCE PRECAUTIONS-

Do not store or use in Aluminum, Zinc, Stainless or Magnesium containers.

OTHER PRECAUTIONS-

DANGER CORROSIVE. KEEP OUT OF REACH OF CHILDREN.

ADDITIONAL COMMENTS-

Shipping Name: **Compound, Cleaning, Liquid. (Hydrofluoric Acid)** Hazard Class **8**  
UN-1760 international ,NA-1760 domestic, Packing Group 11, CORROSIVE label  
FOR TRANSPORTATION EMERGENCY ONLY, CALL INFOTRAC 1-800-535-5053. **24** HR/7 DAYS