



MATERIAL SAFETY DATA SHEET

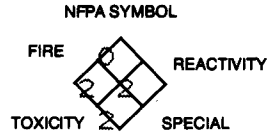
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MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD (HSC) 29 CFR 1910, 1200, STANDARD MUST BE CONSULTED FOR SPECIFIC REQUIREMENTS.

HMIS SYMBOL	
HEALTH	2
FLAMMABILITY	0
REACTIVITY	2

HMIS	NFPA
SEVERE 4	EXTREME
SERIOUS 3	HIGH
MODERATE 2	MODERATE
SLIGHT 1	SLIGHT
MINIMAL 0	INSIGNIFICANT



PRODUCT IDENTIFICATION: B328 COIL TREAT
DATE: 01/02/03 AM

SECTION I: HAZARDOUS INGREDIENTS

CAS NUMBER	CHEMICAL NAME	%	TLV (PPM)
7664-39-3	HYDROGEN FLUORIDE	4.3	3
7664-38-2	PHOSPHORIC ACID	21.4	1 mg/M3
7732-18-5	WATER	74.3	N/A

TOTAL 100%

NOTE - THIS PRODUCT CONTAINS THESE SARA TITLE III, SECTION 313 CHEMICALS:
HYDROGEN FLUORIDE, PHOSPHORIC ACID

SECTION II: PHYSICAL DATA

BOILING POINT: 212 F
 VAPOR PRESSURE: N/A
 VAPOR DENSITY: N/A
 SOLUBILITY IN WATER: 100%
 SPECIFIC GRAVITY: (H2O=1): 0.85
 PERCENT VOLATILE BY VOLUME: N/A
 EVAPORATION RATE: (BUTYL ACETATE=1): < 1
 P H: 1-2
 APPEARANCE AND ODOR: CLEAR LIQUID & MILD ODOR

SECTION III: FIRE AND EXPLOSION DATA

FLASH POINT: N/A
 FLAMMABLE LIMITS: N/A
 EXTINGUISHING MEDIA: N/A
 SPECIAL FIREFIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

SECTION IV: HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: N/A

EFFECTS OF OVEREXPOSURE: CAUSES SEVERE BURNS TO EYES AND SKIN, INHALATION WILL IRRITATE MUCOUS MEMBRANE, AND INGESTION CAN BE FATAL IF SWALLOWED.

EMERGENCY FIRST AID PROCEDURES:

SKIN: WASH WITH WATER

EYES: FLUSH WITH WATER. CONTACT PHYSICIAN.

INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE AMTS OF WATER. CONTACT PHYSICIAN IMMEDIATELY.

INHALATION: REMOVE TO FRESH AIR. CONTACT PHYSICIAN.

SECTION V: REACTIVITY DATA

STABILITY DATA: STABLE. REACTS WITH METALS TO PRODUCE HYDROGEN.

INCOMPATIBILITY: METALS, GLASS, CERAMICS

HAZARDOUS DECOMPOSITIONN PRODUCTS: NONE KNOWN

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI: SPILL OR LEAK PROCEDURES

SMALL SPILLS: FLUSH WITH WATER AND NEUTRALIZE WITH SODA ASH. FLUSH TO CHEMICAL SEWER. WHEN MIXING ACIDS WITH WATER, USE EXTREME CAUTION.

LARGE SPILLS: SAME

AVOID BREATHING OF VAPORS AND ABSORPTION THROUGH SKIN.

FOLLOW STATE AND LOCAL REGULATIONS FOR DISPOSAL OF LARGE NON-RECLAIMABLE SPILLS.

SECTION VII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: N/A

VENTILATION: LOCAL EXHAUST: ADEQUATE

PROTECTIVE GLOVES: RUBBER

EYE PROTECTION: GOGGLES OR SPLASH MASK

OTHER PROTECTIVE EQUIPMENT: RUBBER APRON

SECTION VIII: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP WATER AWAY FROM CONTAINER. KEEP AWAY FROM CHLORATES, NITRATES, AND PERMANGANATES.

OTHER PRECAUTIONS: READ & FOLLOW THE DIRECTIONS ON THE PRODUCT LABEL. THEY ARE YOUR BEST GUIDE TO USING THIS PRODUCT IN THE MOST EFFECTIVE MANNER, AND THEY ALSO GIVE YOU THE NECESSARY SAFETY PRECAUTIONS TO PROTECT YOUR HEALTH.