

MATERIAL SAFETY DATA SHEET
(ESSENTIALLY SIMILAR TO OSHA FORM 20, COMPLIES WITH 29CFR 1910.1200)

HAZARD RATING: HEALTH - 2, FIRE - 0, REACTIVITY - 0
MINIMAL - 0 SLIGHT - 1 MODERATE - 2 SERIOUS - 3 SEVERE - 4

*****SECTION I: GENERAL INFORMATION*****

MANUFACTURED FOR: CK INDUSTRIAL
ADDRESS: 21 SWAN DRIVE
REXFORD, NY 12148
TELEPHONE NUMBER: (518) 383-6809
DATE ISSUED/REVISED: March 19, 2006
EMERGENCY RESPONSE NUMBER: 800-255-3924
FORMULA NO.: C-163
PRODUCT NAME: CAPTAIN COIL
CHEMICAL NAME: PHOSPHORIC ACID CONTAINING FORMULA
CHEMICAL FAMILY: LIQUID ACID TILE CLEANER

HAZARDOUS MATERIAL DESCRIPTION
(PROPER SHIPPING NAME, HAZARD CLASS, HAZARD ID NO. (49 CFR 172.101))

*****SECTION II: HAZARDOUS INGREDIENTS*****

AS LISTED IN EPA 40CFR PARTS 261 & 116 AND/OR MASS. DEQE CMR 670.00

| CHEMICAL NAME | CAS NO. | % BY WEIGHT | HAZARD DATA |
|--|-----------|-------------|--|
| *PHOSPHORIC ACID | 7664-38-2 | 10-20 | OSHA PEL (TWA) 1MG/M3 ACGIH(TWA) 1MG/M3 |
| AMMONIUM BIFLOURIDE (EXPRESSED AS *HYDROGEN FLOURIDE - 3.5-5.0) | 1341-49-7 | 1-5 | TLV-2.5mg(F)/m ³ |
| 2-BUTOXYETHANOL | 111-76-2 | 4.2 | TLV 50 PPM |

*THIS SUBSTANCE IS A CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) AND 40 CFR PART 372.

CONTAINS NO INGREDIENT THAT IS LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY IARC, NTP, OR OSHA.

*****SECTION III: PHYSICAL DATA*****

BOILING POINT/RANGE (F): COMP. TO WATER
SPECIFIC GRAVITY: 1.11 (WATER=1)
% VOLATILE BY VOLUME: 75
EVAP. RATE (BUAC=1): SLOWER
SOLUBILITY IN WATER: COMPLETE
VAPOR PRESSURE (MM/HG): NA
PHYSICAL STATE: GREEN LIQUID
VAPOR DENSITY (AIR=1): NA
ODOR: FAINT

*****SECTION IV: FIRE AND EXPLOSION HAZARD DATA*****

FLASH POINT (METHOD USED): NONE
FLAMMABLE LIMITS: LEL: NA UEL: NA
FIRE EXTINGUISHING MEDIA: WATER FOG, FOAM, GAS (CO2/HALON), DRY CHEMICAL
SPECIAL FIRE FIGHTING PROCEDURES: IF POSSIBLE, MOVE CONTAINERS FROM FIRE AREA AND COOL WITH WATER SPRAY. WEAR PROTECTIVE CLOTHING, EYE, FACE, AND SKIN PROTECTION.
UNUSUAL FIRE AND EXPLOSION HAZARDS: PHOSPHORIC ACID MIST CAN CAUSE IRRITATION OF THE EYES AND SKIN. THE ACID ALSO REACTS WITH MOST METALS TO PRODUCE EXPLOSIVE AND FLAMMABLE HYDROGEN GAS.

*****SECTION V: HEALTH HAZARD DATA*****

THRESHOLD LIMIT VALUE: 1 MG/M3 (PHOSPHORIC ACID)
PRIMARY ROUTES OF ENTRY: SKIN ABSORPTION
EFFECTS OF OVEREXPOSURE:
...ACUTE - CAUSES BURNS TO ALL TISSUES. DO NOT GET IN EYES, ON SKIN, OR CLOTHING. HARMFUL IF SWALLOWED. VAPORS IRRITATING TO EYES, NOSE, AND THROAT.
...CHRONIC - PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION OF THE SKIN, EYES, AND RESPIRATORY TRACT.
EMERGENCY AND FIRST AID PROCEDURES:
...INHALATION - REMOVE TO FRESH AIR. GET MEDICAL ATTENTION. IF AVAILABLE, GIVE OXYGEN. GIVE ARTIFICIAL RESPIRATION IF BREATHING STOPPED.
...EYES - IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, KEEPING LIDS APART. GET IMMEDIATE MEDICAL ATTENTION.
...SKIN - SEE "EYES." REMOVE CLOTHING IF CONTAMINATED.
...INGESTION - DO NOT INDUCE VOMITING. DRINK LARGE QUANTITIES OF WATER OR MILK. GET IMMEDIATE MEDICAL ATTENTION.

*****SECTION VI: REACTIVITY DATA*****

STABILITY: STABLE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: DO NOT STORE IN METAL CONTAINERS OR AT HIGH TEMPERATURES.
MATERIALS TO AVOID: DO NOT MIX WITH OTHER CHEMICALS. KEEP AWAY FROM COMBUSTIBLE MATERIALS, METALS, ALKALIES, ETC.
HAZARDOUS DECOMPOSITION PRODUCTS: TOXIC GASES, INCLUDING PHOSPHORIC ACID FUMES MAY BE PRODUCED.

*****SECTION VII: SPILL OR LEAK PROCEDURES*****

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SPRINKLE AN EXCESS OF SODIUM BICARBONATE, SODA ASH, OR SIMILAR ALKALI ON SPILL UNTIL FOAMING CEASES AND ACID IS NEUTRALIZED. RINSE AREA WITH WATER.
WASTE DISPOSAL: RINSE DRUM OFF & DISPOSE OF ACCORDING TO LOCAL REGULATIONS FOR HAZARDOUS WASTE.

*****SECTION VIII: SPECIAL PROTECTION INFORMATION*****

RESPIRATORY PROTECTION: NONE REQUIRED.
VENTILATION TYPE: LOCAL EXHAUST ADEQUATE.
PROTECTIVE GLOVES: ACID RESISTANT GLOVES.
EYE PROTECTION: SAFETY GLASSES OR GOGGLES, FACE SHIELD.
OTHER PROTECTIVE EQUIPMENT: ACID RESISTANT APRON AND BOOTS.

*****SECTION IX: SPECIAL PRECAUTIONS*****

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE IN A COOL AREA AWAY FROM HEAT. AVOID CONTACT WITH METALS, ALKALIES, AND OXIDIZING MATERIALS. DO NOT GET ON SKIN, EYES, OR CLOTHING. IF SPILLED ON CLOTHING, REMOVE CLOTHING AND FLUSH OFF EXPOSED SKIN WITH WATER. DO NOT TAKE INTERNALLY. USE ADEQUATE EYE AND SKIN PROTECTION.
OTHER PRECAUTIONS: WASH HANDS THOROUGHLY AFTER USE. KEEP CONTAINERS CLOSED. KEEP OUT OF THE REACH OF CHILDREN.