

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

HAZARD RATING: HEALTH - 3, FIRE - 0, REACTIVITY - 1
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
(518) 383-6809
TELEPHONE NUMBER:
DATE ISSUED/REVISED: JULY 17, 2005
EMERGENCY RESPONSE NUMBER: 800-255-3924 CHEM-TEL INC.
FORMULA NO.: C-702
PRODUCT NAME: HOT FLASH DRAIN OPENER (GRANULAR)
CHEMICAL NAME: CAUSTIC SODA, SODIUM HYDROXIDE
CHEMICAL FAMILY: CAUSTIC (ALKALINE) DRAIN OPENER

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
*SODIUM HYDROXIDE	1310-73-2	80-90.0%	OSHA PEL (TWA) 2MG/M ³ ACGIH (TWA) 2MG/M ³
SODIUM NITRATE	7631-99-4	10-20%	
ALUMINUM METAL	7429-90-5	5-10%	ACGIH (TWA) 10MG/M ³

*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 LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY IARC, NTP, OR OSHA.

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

BOILING POINT/RANGE (F): 1390°C
SPECIFIC GRAVITY: 2.13 (WATER=1)
% VOLATILE BY VOLUME: NIL
EVAP. RATE (BUAC=1): NA
WEIGHT/GALLON: NA (WATER=8.33#)
SOLUBILITY IN WATER: 347gm/100gm WATER @ 100°C
VAPOR PRESSURE (MM/HG): NA
PHYSICAL STATE: WHITE SOLID FLAKES OR BEADS
VAPOR DENSITY (AIR=1): NA
ODOR: NO DISTINCT ODOR
OTHER: PH GREATER THAN 13

*****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: PROTECTIVE CLOTHING & PRESSURE-DEMAND, SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN WHERE PRODUCT IS STORED. BE CAREFUL OF SPRAYING WATER DIRECTLY ON PRODUCT, IT MAY SPATTER. IF POSSIBLE, REMOVE CONTAINERS FROM FIRE AREA AND COOL.
UNUSUAL FIRE AND EXPLOSION HAZARDS: PRODUCT CAN MELT AND FLOW WHEN HEATED ABOVE 700°F. THE HOT MOLTEN MATERIAL WILL REACT VIOLENTLY WITH WATER RESULTING IN SPATTERING. IT ALSO WILL REACT WITH SOME METALS, SUCH AS ALUMINUM, TIN, ZINC, TO PRODUCE EXPLOSIVE & FLAMMABLE HYDROGEN GAS.

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

THRESHOLD LIMIT VALUE: 2 MG/M3
PRIMARY ROUTES OF ENTRY: INHALATION AND SKIN ABSORPTION
EFFECTS OF OVEREXPOSURE:
...ACUTE - CORROSIVE: CAUSES SEVERE BURNS TO ALL BODY TISSUES. DO NOT GET IN EYES, ON SKIN, OR CLOTHING. CAN BE FATAL IF SWALLOWED.
...CHRONIC - PROLONGED INHALATION OF THE DUST CAN CAUSE BURNS OF THE RESPIRATORY TRACT.
EMERGENCY AND FIRST AID PROCEDURES:
...INHALATION - REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.
...EYES - IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS APART. GET MEDICAL ATTENTION IMMEDIATELY.
...SKIN - SEE "EYES." REMOVE CLOTHING IF CONTAMINATED.
...INGESTION - DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER IF PERSON IS CONSCIOUS. GIVE SEVERAL GLASSES OF MILK, FOLLOWED WITH DILUTE VINEGAR OR FRUIT JUICE. 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 IN HIGH HUMIDITY AND EXTREME HEAT.
MATERIALS TO AVOID:
...DO NOT MIX WITH OTHER CHEMICALS. EXTREME HEAT CAN BE GENERATED UPON DIRECT CONTACT WITH WATER, ACIDS, MANY METALS, SOLVENTS, ETC.
HAZARDOUS DECOMPOSITION PRODUCTS: NONE

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

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
...IMMEDIATELY PICK UP, AVOIDING CONTACT WITH SKIN, EYES, OR CLOTHING. PLACE IN SEALABLE CONTAINERS FOR REUSE OR DISPOSAL. ABSORPTION OF MOISTURE WILL MAKE CLEANUP DIFFICULT. RINSE AREA WITH DILUTE ACID AND WATER.
WASTE DISPOSAL:
...DISPOSE OF ACCORDING TO LOCAL REGULATIONS FOR HAZARDOUS WASTE.

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

RESPIRATORY PROTECTION: DUST MASK RECOMMENDED
VENTILATION TYPE: LOCAL EXHAUST IS ADEQUATE.
PROTECTIVE GLOVES: RECOMMENDED
EYE PROTECTION: SAFETY GLASSES OR GOGGLES
OTHER PROTECTIVE EQUIPMENT: PROTECTIVE CLOTHING & CHEMICAL RESISTANT SHOES

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
...STORE IN A COOL DRY AREA. KEEP CONTAINER TIGHTLY SEALED AND PROTECTED FROM MOISTURE AND WATER. PRODUCT IS CORROSIVE. DO NOT GET ON SKIN, EYES, OR CLOTHING. IF SPILLED ON CLOTHING, REMOVE CLOTHING QUICKLY AND FLUSH OFF EXPOSED SKIN WITH WATER. DO NOT TAKE INTERNALLY. CAN BE FATAL IF SWALLOWED. AVOID BREATHING DUST.
OTHER PRECAUTIONS:
...USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. DO NOT TRANSFER TO METAL CONTAINERS. AVOID CONTACT WITH OTHER CHEMICALS. WEAR ADEQUATE PROTECTION FOR EYES AND SKIN. KEEP OUT OF THE REACH OF CHILDREN