

MATERIAL SAFETY DATA SHEET
(ESSENTIALLY SIMILAR TO OSHA FORM 20, COMPLIES WITH 29CFR 1910:1200)

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

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

MANUFACTURED FOR: MAINTENANCE SOLUTIONS, INC..
ADDRESS: 7755 E. GELDING #C103
SCOTTSDALE, AZ 85260
TELEPHONE NUMBER: (480) 607-9593
DATE ISSUED/REVISED: MAY 20, 2007
EMERGENCY RESPONSE NUMBER: 800-255-3924
FORMULA NO.: C-503
PRODUCT NAME: BIG SHOT DRAIN OPENER
CHEMICAL NAME: SULFURIC ACID/PETROLEUM SOLVENT
CHEMICAL FAMILY: ACID DRAIN CLEANER

HAZARDOUS MATERIAL DESCRIPTION
(PROPER SHIPPING NAME, HAZARD CLASS, HAZARD ID NO. (49 CFR 172.101)
SULFURIC ACID, 8, UN1830, PGII, LTD. QTY.

*****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
*SULFURIC ACID	7664-93-9	92	TLV 1MG/M3 PEL (TWA) 1MG/M3
*ORTHODICHLOROBENZENE	95-50-1	1.0	ACGIH (TWA) 400PPM

*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.

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

BOILING POINT/RANGE (F): 356 (ORTHO)
SPECIFIC GRAVITY: 1.8 (WATER=1)
% VOLATILE BY VOLUME: 8
EVAP. RATE (BUAC=1): SLOWER
WEIGHT/GALLON: 15# (WATER=8.33#)
SOLUBILITY IN WATER: 99%
VAPOR PRESSURE (MM/HG): NA
PHYSICAL STATE: TWO PHASE SYSTEM-LOWER LAYER CLEAR TO BLACK/UPPER CLEAR
VAPOR DENSITY (AIR=1): NA (HEAVIER)
ODOR: SOLVENT
OTHER: PH LESS THAN 1

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

FLASH POINT (METHOD USED): 155F (ORTHO)
FLAMMABLE LIMITS: LEL: 2.2 UEL: 9.2
FIRE EXTINGUISHING MEDIA: WATER FOG, FOAM, GAS (CO2/HALON), DRY CHEMICAL
SPECIAL FIRE FIGHTING PROCEDURES:
...DO NOT SPRAY WATER DIRECTLY ON DRAIN CLEANER. ACID REACTS VIOLENTLY WITH WATER AND CAN CAUSE SPATTERING. WEAR PROTECTIVE CLOTHING, EYE, FACE, AND SKIN PROTECTION AND NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
...AT HIGH TEMPERATURES, SULFURIC ACID MIST OR SULFUR TRIOXIDE GAS CAN BE RELEASED FROM VENTED OR RUPTURED CONTAINERS.

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

THRESHOLD LIMIT VALUE: 1 MG/M3

PRIMARY ROUTES OF ENTRY: SKIN ABSORPTION AND INHALATION

EFFECTS OF OVEREXPOSURE:

...ACUTE - DANGER: CAUSES SEVERE BURNS. DO NOT GET IN EYES, ON SKIN, OR CLOTHING.

...CHRONIC - PROLONGED INHALATION OF FUMES OR ACID MIST CAN CAUSE IRRITATION AND BURNS OF THE RESPIRATORY TRACT.

EMERGENCY AND FIRST AID PROCEDURES:

...INHALATION - REMOVE TO FRESH AIR. GET MEDICAL ATTENTION. GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED.

...EYES - IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, UNTIL MEDICAL ATTENTION IS RECEIVED.

...SKIN - SEE "EYES." REMOVE CLOTHING IF CONTAMINATED WITH ACID.

...INGESTION - DRINK LARGE QUANTITIES OF WATER OR MILK FOLLOWED WITH

MILK OF MAGNESIA, BEATEN EGGS, OR VEGETABLE OIL. GET IMMEDIATE MEDICAL ATTENTION.

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

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: DO NOT ADD WATER TO DRAIN OPENER, ALWAYS ADD DRAIN OPENER TO WATER. DO NOT STORE IN METAL CONTAINERS OR IN EXTREME HEAT.

MATERIALS TO AVOID: DO NOT MIX WITH OTHER CHEMICALS. KEEP AWAY FROM COMBUSTIBLE MATERIAL.

HAZARDOUS DECOMPOSITION PRODUCTS: SULFURIC TRIOXIDE GAS.

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

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SPRINKLE AN EXCESS OF SODIUM BICARBONATE OR SODA ASH ON SPILL UNTIL FOAMING CEASES AND ACID IS NEUTRALIZED. RINSE AREA WITH WATER.

WASTE DISPOSAL: DRUM OFF AND 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: PRODUCT IS A STRONG ACID AND REACTS VIOLENTLY WITH WATER. 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.

OTHER PRECAUTIONS: STORE IN A COOL, DRY AREA AWAY FROM COMBUSTIBLE MATERIALS. DO NOT TRANSFER TO METAL CONTAINERS. WEAR EYE GLASSES OR GOGGLES AND FULL FACE SHIELD, ACID RESISTANT GLOVES, APRON, AND BOOTS. USE WITH ADEQUATE VENTILATION. KEEP OUT OF THE REACH OF CHILDREN.