

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BOILER-RITE #16
CHEMICAL FAMILY: WATER TREATMENT COMPOUND
PHYSICAL HAZARD: NONE
HEALTH HAZARD: IRRITANT, SENSITIZER
HAZARD RATINGS: HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0

LAST REVISED: 4/24/90
PRODUCT NUMBER: DMN0025
Damon Industries, Inc.
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0 = Insignificant 3 = Serious
1 = Slight 4 = Severe
2 = Moderate

D.O.T. HAZARD CLASS: NONE

--- SECTION 2 - HAZARDOUS INGREDIENTS ---

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>PERCENT</u>	<u>TWA</u>	<u>STEL</u>	<u>CEILING</u>
SODIUM SULFITE	7757-83-7	100%	-	-	-

THE BALANCE OF INGREDIENTS ARE NOT CONSIDERED HAZARDOUS UNDER CFR 29 1910.1200.

----- SECTION 3 - PHYSICAL DATA -----

BOILING POINT: DECOMPOSES ABOVE 302° F. SPECIFIC GRAVITY: 1.48
VAPOR PRESSURE: NOT APPLICABLE PERCENT VOLATILES: NOT APPLICABLE
VAPOR DENSITY: NOT APPLICABLE EVAPORATION RATE: NOT APPLICABLE
SOLUBILITY IN WATER: 39% AT 60° F. pH: 1% SOLUTION = 4.3 ± 0.5
APPEARANCE AND ODOR: FINE WHITE GRANULAR. PUNGENT SULFUR DIOXIDE ODOR.

-- SECTION 4 - FIRE AND EXPLOSION DATA --

FLASH POINT: NONE LOWER EXPLOSIVE LIMIT: NOT APPLICABLE
UPPER EXPLOSIVE LIMIT: NOT APPLICABLE

EXTINGUISHING MEDIA: WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES: BECAUSE SULFUR DIOXIDE GAS MAY BE PRESENT, WEARING A SELF-CONTAINED BREATHING APPARATUS MAY BE REQUIRED.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE.

----- SECTION 5 - REACTIVITY DATA -----

STABILITY: STABLE

INCOMPATIBILITY: ACIDS, OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: SULFUR DIOXIDE. SODIUM SULFIDE IS PRODUCED AT HIGH TEMPERATURES OR UNDER REDUCING CONDITIONS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

----- SECTION 6 - HEALTH HAZARD DATA -----

THRESHOLD LIMIT VALUE (TLV): NONE KNOWN

PRIMARY ROUTES OF ENTRY: X THROUGH SKIN X INHALATION X INGESTION

EFFECTS OF OVEREXPOSURE:

EYES - MAY CAUSE IRRITATION.

SKIN - NO IRRITATION IS LIKELY AFTER BRIEF CONTACT. PROLONGED CONTACT MAY CAUSE IRRITATION.

INHALATION - MAY CAUSE IRRITATION.

SWALLOWING - GASTRIC IRRITATION, DIARRHEA, CIRCULATORY PROBLEMS, NERVOUS SYSTEM DEPRESSION.

OTHER EFFECTS - SOME PERSONS MAY BE VERY ALLERGIC. PROLONGED CONTACT MAY CAUSE SENSITIZATION. PERSONS SENSITIVE TO SULFITES SHOULD BE IDENTIFIED AND NOT ALLOWED TO COME INTO CONTACT WITH THIS PRODUCT.

FIRST AID PROCEDURES:

SKIN CONTACT: IMMEDIATELY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. IF IRRITATION PERSISTS AFTER WASHING GET MEDICAL ATTENTION.

EYE CONTACT: IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS OCCASIONALLY. GET IMMEDIATE MEDICAL ATTENTION.

INHALATION: REMOVE PERSON TO FRESH AIR. IF SYMPTOMS PERSIST GET MEDICAL ATTENTION.

INGESTION: IF CONSCIOUS, IMMEDIATELY INDUCE VOMITING BY GIVING 2 GLASSES OF WATER AND STICKING A FINGER DOWN THE THROAT. GET MEDICAL ATTENTION IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

----- SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES -----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND MAY BE HAZARDOUS. OBSERVE ALL PRECAUTIONS GIVEN IN THIS DATA SHEET.

STORE IN A COOL PLACE AWAY FROM ACIDS AND OXIDIZERS.

WHEN ADDING TO WATER SULFUR DIOXIDE GAS IS GENERATED. KEEP FACE AWAY WHILE MIXING.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: SWEEP OR SHOVEL UP DRY CHEMICAL AND PLACE IN METAL DRUM WITH COVER. CAUTIOUSLY SPRAY REMAINING RESIDUE WITH PLENTY OF WATER AND FLUSH TO SEWER. SULFUR DIOXIDE FUMES WILL BE GENERATED.

WASTE DISPOSAL METHOD: USUALLY MAY BE FLUSHED TO SEWER AFTER NEUTRALIZING WITH CAUSTIC SODA TO pH 7 WITH STIRRING. SULFUR DIOXIDE FUMES WILL BE RELEASED DURING NEUTRALIZATION. OXIDATION TO SODIUM SULFATE MAY ALSO BE REQUIRED BY ADDING A SLIGHT EXCESS OF DILUTE (3%) HYDROGEN PEROXIDE CAREFULLY AND WITH STIRRING. CHECK ALL APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS FIRST. WASTE MAY HAVE TO BE DISPOSED OF BY AN APPROVED CONTRACTOR.

---- SECTION 8 - PROTECTIVE EQUIPMENT ----

RESPIRATORY PROTECTION: IF PRODUCT DUST EXCEEDS OSHA LIMITS, USE A RESPIRATOR APPROVED BY NIOSH FOR DUSTS.

PROTECTIVE GLOVES: WEAR COTTON GLOVES FOR ROUTINE DRY PRODUCT USE. USE IMPERVIOUS GLOVES SUCH AS RUBBER OR NEOPRENE WHEN USING SOLUTIONS.

VENTILATION: IF OSHA LIMITS OF PRODUCT ARE EXCEEDED USE GENERAL OR LOCAL EXHAUST.

EYE PROTECTION: SAFETY GLASSES, OR CHEMICAL GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS.

OTHER PROTECTIVE EQUIPMENT: IMPERVIOUS CLOTHING OR APRON.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.