

# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME:** RADEX TANK NEUTRALIZER  
**CHEMICAL FAMILY:** ACID SALT  
**PHYSICAL HAZARD:** CORROSIVE TO METALS  
**HEALTH HAZARD:** EYES SKIN DIGESTIVE SYSTEM  
**HAZARD RATINGS:** HEALTH: 1  
FLAMMABILITY: 0  
REACTIVITY: 1

**NUMBER:** DMN0192  
**REVISED:** 12-13-94

**DAMON INDUSTRIES, INC.**  
**BOX 2120, ALLIANCE, OH 44601**

**24 HOUR EMERGENCY ONLY PHONE:** 1-800-535-5053

0 = Insignificant  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe

**INFORMATION PHONES:** 1-800-362-9850  
OR 330-821-5310  
**FAX:** 330-821-6355

**D.O.T. HAZARD CLASS:** NOT CONSIDERED HAZARDOUS UNDER CFR 49

## SECTION 2 - HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>PERCENT</u>	<u>TWA</u>	<u>STEL</u>	<u>CEILING</u>
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SODIUM BISULFATE

>60%

THE BALANCE OF INGREDIENTS ARE NOT CONSIDERED HAZARDOUS UNDER CFR 29 1910.1200.  
NONE OF THE INGREDIENTS ARE LISTED AS CARCINOGENS BY N.T.P., I.A.R.C. OR OSHA.

## SECTION 3 - PHYSICAL DATA

**BOILING POINT:** 225° F.  
**SPECIFIC GRAVITY:** 2.72  
**VAPOR PRESSURE:** NIL  
**PERCENT VOLATILES:** 100%  
**VAPOR DENSITY:** NOT AVAILABLE  
**EVAPORATION RATE:** NOT AVAILABLE  
**SOLUBILITY IN WATER:** MISCIBLE  
**pH:** 1.0  
**APPEARANCE AND ODOR:** WHITE SOLID WITH ACIDIC ODOR

**INGESTION:** DO NOT INDUCE VOMITING. VOMITING WILL CAUSE FURTHER DAMAGE TO THE THROAT. DILUTE BY GIVING WATER OR MILK. TREAT FOR SHOCK BY KEEPING WARM AND QUIET. GENT MEDICAL ATTENTION IMMEDIATELY. DO NOT GIVE ANYTHING BY MONTH TO AN UNCONSCIOUS PERSON.  
**INHALATION:** IF AFFECTED, REMOVE PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP WARM AND GET MEDICAL ATTENTION.

## SECTION 4 - FIRE AND EXPLOSION DATA

**FLASH POINT:** NONE  
**LOWER EXPLOSIVE LIMIT:** NOT APPLICABLE  
**UPPER EXPLOSIVE LIMIT:** NOT APPLICABLE  
**EXTINGUISHING MEDIA:** AVOID CARBONATE DRY POWDER DUE TO REACTIVITY  
**SPECIAL FIRE FIGHTING PROCEDURES:** WHEN EXPOSED IN FIRES FUELED BY OTHER MATERIALS HYDROGEN FLUORIDE VAPORS MAY BE EVOLVED; USE SELF-CONTAINED BREATHING APPARATUS.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** CONTACT WITH REACTIVE METALS WILL RELEASE EXPLOSIVE HYDROGEN GAS.

## SECTION 7 - SPECIAL PRECAUTIONS

### SPILL/LEAK PROCEDURES

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE SEPARATE FROM ALKALIS, OXIDIZERS AND ACTIVE METALS. STORE IN COOL, WELL VENTILATED AREA. REMOVE LEAKING CONTAINERS.  
EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND MAY BE HAZARDOUS. OBSERVE ALL PRECAUTIONS GIVEN IN THIS DATA SHEET.

## SECTION 5 - REACTIVITY DATA

**STABILITY:** STABLE  
**INCOMPATIBILITY:** NONE  
**HAZARDOUS DECOMPOSITION PRODUCTS:** CONTACT WITH REACTIVE METALS WILL RELEASE EXPLOSIVE HYDROGEN GAS. CONTACT WITH OXIDIZERS MAY RELEASE SULFUR OXIDES VAPORS.  
**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR.

#### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

COVER SPILLS WITH SODIUM CARBONATE (SODA ASH) OR SLAKED LIME. GATHER UP RESIDUAL SOLIDS (WITH REQUIRED EYE AND SKIN PROTECTION) IN A CLEAN DRUM. WASH REMAINING MATERIAL TO SEWER WITH LARGE EXCESS OF WATER.

**WASTE DISPOSAL METHOD:** WASTE DISPOSAL METHOD: ADD SLOWLY TO WATER AND NEUTRALIZE WITH SODIUM HYDROXIDE, SODA ASH OR SLAKED LIME. IN SOME AREAS THIS MAY BE FLUSHED TO SEWER WITH A LARGE EXCESS OF WATER. CHECK LOCAL REGULATIONS TO SEE IF HAZARDOUS WASTE DISPOSAL IS REQUIRED. AVOID DISCHARGE TO NATURAL WATERWAYS.

## SECTION 6 - HEALTH HAZARD DATA

**THRESHOLD LIMIT VALUE (TLV):** NONE KNOWN  
**PRIMARY ROUTES OF ENTRY:**  
 THROUGH SKIN  INHALATION  INGESTION

## SECTION 8 - PROTECTIVE EQUIPMENT

#### EFFECTS OF OVEREXPOSURE:

**EYES** - CAUSES SEVERE DAMAGE AND MAY CAUSE BLINDNESS.

**SKIN** - SOLID CAUSES BURNS. REPEATED CONTACT WITH DILUTED SOLUTIONS MAY PRODUCE DERMATITIS.

**SWALLOWING** - RESULTS IN DAMAGE TO MUCOUS MEMBRANES.

**BREATHING** - OF DUST OR FUMES CAN CAUSE DAMAGE TO NASAL AND RESPIRATORY PASSAGES.

#### FIRST AID PROCEDURES:

**EYE CONTACT:** IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS OCCASIONALLY. GET IMMEDIATE MEDICAL ATTENTION. DO NOT USE CHEMICAL ANTIDOTE.

**SKIN CONTACT:** IMMEDIATELY FLUSH EXPOSED AREA WITH WATER FOR AT LEAST 15 MINUTES, GET MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING IMMEDIATELY. LAUNDRY CLOTHING BEFORE REUSE. DISCARD CONTAMINATED SHOES.

**RESPIRATORY PROTECTION:** IF TLV OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, AN OSHA APPROVED BREATHING APPARATUS OR RESPIRATOR SHOULD BE USED. (SEE YOUR SAFETY EQUIPMENT SUPPLIER).

**VENTILATION:** PROVIDE SUFFICIENT MECHANICAL (GENERAL) AND/OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).

**PROTECTIVE GLOVES:** WEAR RESISTANT GLOVES SUCH AS: NEOPRENE.

**EYE PROTECTION:** SAFETY GLASSES, CHEMICAL SPLASH GOGGLES OR FACE SHIELD IN COMPLIANCE WITH OSHA REGULATIONS. (SEE YOUR SAFETY EQUIPMENT SUPPLIER). AN EYE BATH SHOULD BE LOCATED NEARBY.

**OTHER PROTECTIVE EQUIPMENT:** WEAR IMPERVIOUS CLOTHING OR APRON, AND BOOTS.

## OTHER REGULATORY INFORMATION

THE COMPONENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY OF CHEMICAL SUBSTANCES.

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.

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