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Product ID:NALCOOL 2000 COOLING SYSTEM TREATMENT MSDS Date:07/08/1992 FSC:6850 NIIN:01-085-4719 **MSDS Number: BQNGG** === Responsible Party === Company Name: PENRAY COMPANY Address:440 DENNISTON COURT City:WHEELING State:IL ZIP:60090 Country:US Info Phone Num:708-459-5000 **Emergency Phone Num:** 800-942-5969 Preparer's Name: P.A. ZOUBECK CAGE:FO778 === Contractor Identification === Company Name: PENRAY COMPANY Address:440 DENNISTON COURT City:WHEELING State:IL ZIP:60090 Phone: (312) 459-5000 CAGE:FO778 Company Name: PENRAY COMPANY INC Address:440 DENNISTON CT Box:City:WHEELING State:IL ZIP:60090 Country:US Phone:847-459-5000/800-752-7869 CAGE:0WT79

Ingred Name:SODIUM NITRITE (SARA III) CAS:7632-00-0 RTECS #:RA1225000 Fr action by Wt: 5% Other REC Limits:NONE SPECIFIED BY M. EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:SODIUM MERCAPTOBENZOTHIAZOLE CAS:2492-26-4 RTECS #:DL6825000 Fraction by Wt: 5% Other REC Limits:NONE SPECIFIED BY M.

Ingred Name:SODIUM TETRABORATE, ANHYDROUS CAS:1330-43-4 RTECS #:VZ2240000 Fraction by Wt: 5% Other REC Limits:NONE SPECIFIED BY M. OSHA PEL:10 MG/M3 ACGIH TLV:1 MG/M3; 9293

Ingred Name:SODIUM NITRATE CAS:7631-99-4 RTECS #:WC5600000 Fraction by Wt: 5% Other REC Limits:NONE SPECIFIED BY M.

Ingred Name:SODIUM SILICATE CAS:1344-09-8 Fraction by Wt: 5% Other REC Limits:NONE SPECIFIED BY M.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE- MAY CAUSE IRRITATION OF EYES, SKIN, RESPIRATORY AND GI. TRACT. INGESTION MAY CAUSE KIDNEY DAMAGE OR CAN BE FATAL. SODIUM NITRITE HAS CAUSED REPRODUCTIVE D EFECTS IN

ANIMALS. CHRONIC: MAY DAMAGE LIVER, KIDNEY AND CENTRAL NERVOUS SYSTEM.

Effects of Overexposure:EYES AND SKIN: IRRITATION, TEARING, REDNESS. INGESTION:NAUSE, CRAMPS, VOMITING.

Medical Cond Aggravated by Exposure:PREGNANT WOMEN SHOULD AVOID EXPOSURE TO SODIUM NITRITE.

First Aid:INHALATION:REMOVE TO FRESH AIR, PROVIDE CPR/OXYGEN IF NEEDED. EYE CONTACT:FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL HE LP. SKIN

CONTACT:WASH WITH SOAP AND WATER. GET MED ATTENTION IF SYMPTOMS PERSIS T. INGESTION:INDUCE VOMITING, DRINK 1-2GLASSES OF WATER. GET MEDICAL HELP IMMEDIATELY.

Flash Point:NONE

Extinguishing Media:EXTINGUISH WITH AGENT SUITABLE FOR SURROUNDING FIRE Fire Fighting Procedures:FIRE FIGHTERS SHOULD WEAR PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS. WATER SPRAY MAY BE USED TO COOL CONTAINERS

PREVENTING PRESSURE BUILDUP.

Unusual Fire/Explosion Hazard:MAY EVOLVE TOXIC OXIDES OF NITROGEN UNDER FIRE.

Spill Release Procedures:WEAR PROTECTIVE EQUIP. CONTAIN AND COLLECT WITH INERT ABSRBNT MATERIAL SUCH AS CLAY OR SOIL AND PLACE INTO RECVERY DRUMS FOR DISPOSAL.

Handling and Storage Precautions:STORE IN COOL,DRY,WELL VENTILATED AREA. PRO

TECT FROM PHYSICAL DAMAGE.AVOID ANY PHYSICAL CONTACT. KEEP CONTAINERS TIGHTLY CLOSED

Other Precautions:WARNING! HARMFUL IF SWALLOWED. DO NOT TAKE INTRNLLY. AVOID CONTACT W/EYE,& PROLNGD/REPEATD SKIN CONTCT;EMPTY CONTNR MAY CONTAIN RESIDUAL PROD;WASH CONTMNTD CLOTHG/AREA. DISCARD CONTMNTD SHOES/CLOTH.

======= Exposure Controls/Personal Protection ==========

Respiratory Protection:NONE SHOULD BE NEEDED Ventilation:GENERAL VENTILATION IS RECOMMENDED Protective Gloves:IM PERMEABLE Eye Protection:CHEM SPLASH GOGGLES Other Protective Equipment:FULL WORK CLOTHING TO PREVENT REPEATED OR PROLONGED CONTACT. Work Hygienic Practices:WASH HANDS THOROUGHLY AFTER USE.

Supplemental Safety and Health

HCC:N1 Boiling Pt:B.P. Text:212F,100C Vapor Density:9.7 Spec Gravity:1.16 pH:11.5 Solubility in Water:COMPLETE Appearance and Odor:REDISH LIQUID, ODORLESS

======== Stability and Reactivity Data

Stability Indicator/Materials to Avoid:YES STRONG ACIDS,AMINES. Stability Condition to Avoid:NOT KNOWN Hazardous Decomposition Products:OXIDES OF CARBON, AND OXIDES OF NITROGEN MAY BE FORMED.

Waste Disposal Methods:PER MFR,IF THIS PRODUCT BECOMES A WASTE,IT DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DEFINED UNDER RCRA; AS A NON- HAZARDOUS LIQ WASTE,IT SHOULD BE SOLIDIFD BEFORE DISPOSAL TO

A SANITARY LANDFI LL. FOLLOW ALL REGULATIONS FOR DISPOSAL.

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