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PENRAY COMPANY -- NALCOOL 2000 COOLING SYSTEM TREATMENT -- 6850-01-085-4719

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

====== Composition/Information on Ingredients ========

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.

========== Hazards Identification ==============

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.
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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.
========== Accidental Release Measures ==========
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 ============
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
========= Physical/Chemical Properties =========
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.

======= Disposal Considerations ===========

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 LANDFILL. FOLLOW ALL REGULATIONS FOR DISPOSAL.

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