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PENRAY COMPANY -- NALCOOL 2000 ENGINE COOLING SYSTEM TREATMENT -- 6850-01-086-3438

======== Product Identification ============

Product ID:NALCOOL 2000 ENGINE COOLING SYSTEM TREATMENT

MSDS Date:10/01/1993

FSC:6850

NIIN:01-086-3438 MSDS Number: BTTTT

=== Responsible Party ===

Company Name: PENRAY COMPANY Address: 440 DENNISTON COURT

City:WHEELING

State:IL ZIP:60090 Country:US

Info Phone Num:708-459-5000

Emerg

ency 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 Fraction by Wt: 5%

Other REC Limits: NONE RECOMMENDED

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 RECOMMENDED

Ingred Name: SODIUM TETRABORATE

CAS:1330-43-4

RTECS #:VZ2240000 Fraction by Wt: 5%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:10 MG/M3 ACGIH TLV:1 MG/M3; 9394

Ingred Name: SODIUM NITRATE

CAS:7631-99-4

RTECS #:WC5600000 Fraction by Wt: 5%

Other REC Limits: NONE RECOMME

NDED

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: EYES: IRRITATION, BLURRED VISION, PAIN. SKIN: IRRITATION, DRY OR CRACKING SKIN. INHALATION: DIZZINESS, HEADACHE, UNCONSCIOUSNESS, ASPHYXIATION. INGESTION:

NAUSEA, CRAMPS, VOMITING, KIDNEY DAMAG E, DEATH. CHRONIC:

EXPERIMENTAL STUDIESON ANIMALS HAVE SHOWN REPRODUCTIVE DEFECTS FROM EXPOSURE TO SODIUM NITRITE.

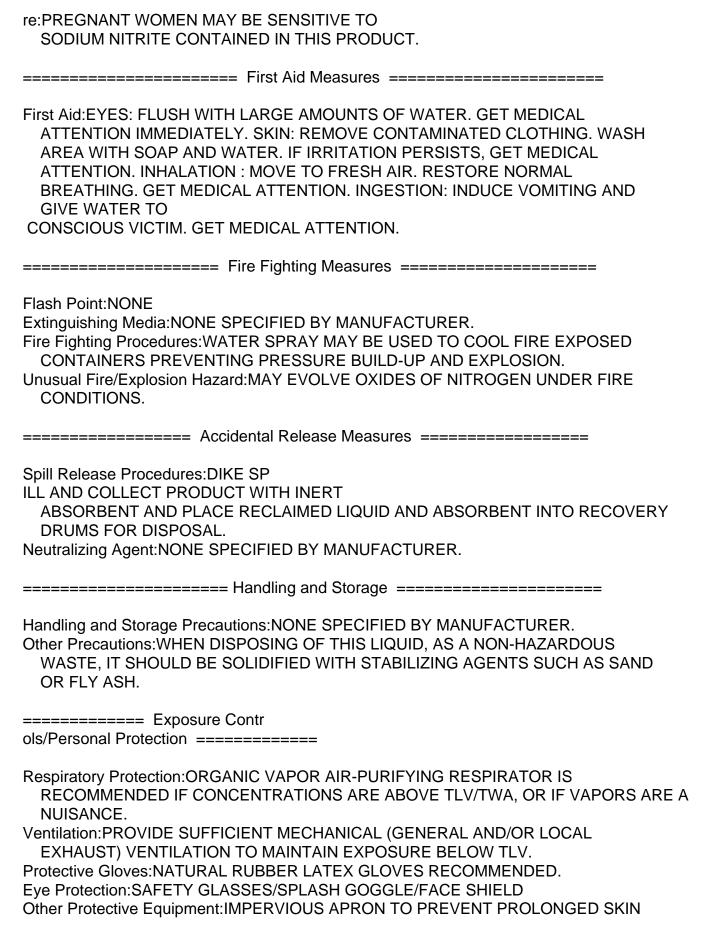
Explanation of Carcinogenicity:THIS PRODUCT IS NOT CONSIDERED A CARCINOGEN BY NTP, IARC, OSHA.

Effects of Overexposure:EYES: IRRITATION, REDNESS, TEARING, BLURRED VISION, PAIN. SKIN: IRRITATION, REDNESS, DRY OR CRACKING SKIN.

INHALATION: DIZZINESS, HEADACHE, UNCONSCIOUSNESS, ASPHYXIATION.

INGESTION: NAUSEA, CRAMPS, VO MITING, KIDNEY DAMAGE, DEATH.

Medical Cond Aggravated by Exposu



CONTACT. PROVIDE AN EYE WASH STATIONS AND SAFETY SHOWER.
Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING,
DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.
Supplemental Safety and Health

PERSONAL PROTECTIVE EQUIPMENT SUGGESTIONS PERTAIN TO EMERGENCY SITUATIONS INVOLVING A LARGE QUANTITY OF PRODUCT. EYE PROTECTION, ORGANIC VAPOR RESPIRATOR AND CLOTHING TO PREVENT PROLONGED SKIN CONTACT IS SUFFICIENT UNDER CONDITIONS OF NORMAL USE.

= Physical/Chemical Properties =========

HCC:B3
Boiling Pt:B.F

Boiling Pt:B.P. Text:212F,100C

Vapor Density:9.7 Spec Gravity:1.16

pH:11.5

Solubility in Water:100%

Appearance and Odor:REDISH LIQUID. NO ODOR.

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

Stability Indicator/Materials to Avoid:YES STRONG ACIDS SUCH AS SULFURIC ACID, PHOSPHORIC ACID, NITRIC ACID. Stability Condition to Avoid:HIGH TEMPERATURES.
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,

OXIDES OF NITROGEN.

Conditions to Avoid Polymerization: CANNOT OCCUR.

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

Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. THIS PRODUCT DOES NOT MEET THE CRITERIA AS A HAZARDOUS WASTE AS DEFINED UNDER RCRA 40CFR261. IT DOES NOT HAVE THE CHARACTERIST ICS OF SUBPART C NOR IS IT LISTED UNDERSUBPART D.

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