

PENRAY COMPANY INC -- PENCOOL 2000 COOLING SYSTEM TREATMENT -- 6850-01-086-3438

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Product Identification
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Product ID: PENCOOL 2000 COOLING SYSTEM TREATMENT

MSDS Date: 10/02/1995

FSC: 6850

NIIN: 01-086-3438

MSDS Number: CCSVV

=== Responsible Party ===

Company Name: PENRAY COMPANY INC

Address: 440 DENNISTON CT

City: WHEELING

State: IL

ZIP: 60090

Country: US

Info Phone Num: 708-459-5000/800-942-5969

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Emergency Phone Num: 708-459-5000/800-942-5969

CAGE: 0WT79

=== Contractor Identification ===

Company Name: DETROIT DIESEL CORP, CORPORATE HQ

Address: 13400 W OUTER DR /SPEED CODE N-53/

Box: City: DETROIT

State: MI

ZIP: 48239-4001

Country: US

Phone: 313-592-5100/5665

CAGE: 72582

Company Name: PENN DETROIT DIESEL ALLISON INC

Address: SIPE ROAD

Box: RD 1

City: YORK HAVEN

State: PA

ZIP: 17370-9785

Country: US

Phone: 717-938-5141

CAGE: 62860

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

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Composition/Information on Ingredients
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Ingred Name:SODIUM NITRITE (SARA III)
CAS:7632-00-0
RTECS #:RA1225000
Other REC Limits:NONE NORMALLY REQUI.
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 NORMALLY REQUI.

Ingred Name:SODIUM TETRABORATE, ANHYDROUS (BORAX)
CAS:1330-43-4
RTECS #:VZ22750
00
Fraction by Wt: 5%
Other REC Limits:NONE NORMALLY REQUI.
OSHA PEL:10 MG/M3
ACGIH TLV:1 MG/M3; 9596

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

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Other REC Limits:NONE SPECIFIED BY M.

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Hazards Identification
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LD50 LC50 Mixture:ORAL RAT: NOT GIVEN FOR COMPLETE PRODUCT
Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO
Reports

of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES: CORROSIVE. WILL BURN. SKIN:
PROLONGED OR REPEATED CONTACT WITH SKIN CAN CAUSE
IRRITATION/BURNING. INHALATION: HEADACHES, DIZZINESS, NAUSEA,
DECREASED BLOOD PRESSURE, CHANGES IN HEART RATE. INGESTION: MAY BE
HARMFUL OR FATAL. MAY CAUSE DISCOMFORT, NAUSEA, VOMITING, DIARRHEA.
POSSIBLE REPRODUCTIVE HAZARD.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT
CONCENTRATIONS
OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT
CARCINOGENS.

Effects of Overexposure:EYE BURNS. SKIN IRRITATION/BURNS, HEADACHES,
DIZZINESS, NAUSEA, DECREASED BLOOD PRESSURE, CHANGES IN HEART RATE,
INTESTINAL DISCOMFORT, VOMITING, DIARRHEA.

Medical Cond Aggravated by Exposure:PREGNANT WOMEN SHOULD AVOID
EXPOSURE TO SODIUM NITRITE. PRE-EXISTING EYE OR SKIN CONDITIONS MAY
BE AGGRAVATED BY OVEREXPOSURE TO PRODUCT. TARGET ORGANS: CENTRAL
NERVOUS SYSTEM.

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===== First Aid Measures =====

First Aid:INHALATION:REMOVE TO FRESH AIR, PROVIDE CPR/ OXYGEN IF
NEEDED. EYE CONTACT:FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL
HELP. SKIN CONTACT:WASH WITH SOAP AND WATER. GET MED ATTENTION IF
SYMPTOMS PERSIST. INGESTION:INDUCE VOMITING. GIVE CONSCIOUS VICTIM
GLASS OF WATER AND SEEK MEDICAL ATTENTION. NEVER GIVE WATER TO
UNCONSCIOUS VICTIM.

===== Fire Fighting Measures =====

Flash Poi

nt:NONE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, WATER FOG

Fire Fighting Procedures:CONTAINERS CAN BUILD UP PRESSURE IF EXPOSED TO
FIRE. CONTAINERS SHOULD BE COOLED WITH WATER SPRAY. WEAR SELF
CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE.

Unusual Fire/Explosion Hazard:PRODUCT WILL NOT SUPPORT COMBUSTION.

===== Accidental Release Measures =====

Spill Release Procedures:NOTIFY SAFETY PERSONNEL, EVACU

ATE ALL

UNNECESSARY PERSONNEL AND PROVIDE ADEQUATE VENTILATION. IF FEASIBLE WITHOUT RISK, SHUT OFF LEAK. WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT WHEN CLEANING UP ANY SPILL. COLLECT WITH INERT ABSORBENT AND PUT IN DRUMS

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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===== Handling and Storage =====

Handling and Storage Precautions:STORE IN CLOSED CONTAINERS AWAY FROM EXCESSIVE HEAT. KEEP CONTAINER CLOSED WHEN NOT IN USE. WASH THO

ROUGHLY AFTER HANDLING.

Other Precautions:DO NOT GET IN EYES, ON SKIN OR ON CLOTHING.

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

Respiratory Protection:MATERIAL NON-VOLATILE. NO RESPIRATOR REQUIRED UNDER NORMAL USE.

Ventilation:MATERIAL NON-VOLATILE. GENERAL VENTILATION SHOULD BE SUFFICIENT.

Protective Gloves:CHEMICAL RESISTANT

Eye Protection:CHEMICAL SPLASH GOGGLES

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT.

AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health

NEVER EAT, DRINK OR SMOKE IN WORK AREAS.

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

HCC:T6

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

Melt/Freeze Pt:M.P/F.P Text: