

PENRAY COMPANY INC -- CATERPILLAR COOLING SYSTEM CLEANER -- 6850-01-219-5714

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

Product ID:CATERPILLAR COOLING SYSTEM CLEANER

MSDS Date:02/08/1996

FSC:6850

NIIN:01-219-5714

MSDS Number: CBSJM

=== Responsible Party ===

Company Name:PENRAY COMPANY INC

Address:440 DENNISTON CT

City:WHEELING

State:IL

ZIP:60090

Country:US

Info Phone Num:847-459-5000

Emergency Phone Num:

847-459-5000/800-752-7869 X 7

Preparer's Name:PAUL A. ZOUBEK

CAGE:0WT79

=== Contractor Identification ===

Company Name:HOLT CO OF OHIO

Address:5252 WALCUTT CT

Box:City:COLUMBUS

State:OH

ZIP:43228-9641

Country:US

Phone:614-878-2287

CAGE:2J565

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

Company Name:SDB CONSULTANTS LTD

Address:401 WHITNEY AVE SUITE 120

Box:City:GRETNA

State:LA

ZIP:70056

Country

:US  
Phone:504-366-9105  
CAGE:0PGK2

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

Ingred Name:SODIUM TETRABORATE, ANHYDROUS (BORAX)  
CAS:1330-43-4  
RTECS #:VZ2275000  
Fraction by Wt: 1 - 5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG/M3  
ACGIH TLV:1 MG/M3; 9596

Ingred Name:SODIUM MERCAPTOBENZOTHAZOLE  
CAS:2492-26-4  
RTECS #:DL6825000  
Fraction by Wt: 1 - 5%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM HYDROXIDE (CERCLA)  
CAS:1310-73-2  
RTECS #:WB4900000  
Fraction by  
Wt: 1 - 5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2 MG/M3  
ACGIH TLV:C 2 MG/M3; 9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:SODIUM NITRITE (CERCLA)  
CAS:7632-00-0  
RTECS #:RA1225000  
Other REC Limits:NONE RECOMMENDED  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

Ingred Name:SODIUM NITRATE  
CAS:7631-99-4  
RTECS #:WC5600000  
Other REC Limits:NONE RECOMMENDED

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:NOT RELEVANT  
ACGIH TLV:NOT RELEVANT

=

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS UNKNOWN.

Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO

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

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN,

GASTROINTESTINAL TRACT. ACUTE- MAY CAUSE EYE IRRITATION.

PROLONGED/REPEATED SKIN CONTACT MAY CAUSE IRRITATION. SKIN

ABSORPTION CAN OCCUR. INHALATION IS UNLIKELY. HARMFUL IF INGESTED.

POSSIBLE REPRODUCTI

VE HAZARD UPON INGESTION TO SODIUM NITRITE.

CHRONIC- MAY CAUSE DERMATITIS.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION, DERMATITIS

Medical Cond Aggravated by Exposure:PREGNANT WOMEN, INDIVIDUALS WITH

PRE-EXISTING DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT, KIDNEYS,

BLOOD CELLS, MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF

EXCESSIVE EXPOSURES.

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

First Aid:CALL PHYSICIAN IF SYM

PTOMS PERSIST. EYE:IMMEDIATELY FLUSH

WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. CALL PHYSICIAN.

SKIN:WASH WITH SOAP & WATER. INHALED:MOVE TO FRESH AIR. PROVIDE

CPR/OXYGEN IF NEEDED. ORAL:IF CONSCIOUS, DRINK A GLASS OF WATER &

INDUCE VOMITING. CALL A PHYSICIAN. NEVER GIVE FLUID OR INDUCE

VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.

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

Flash Point:NONE

Lower Limits:NOT RELEVANT

Upper Limits:NOT RE

LEVANT

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL

FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED

CONTAINERS.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED

SELF-CONTAINED BREATHING APPARATUS.

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

Spill Release Procedures:WEAR PROPER PROTECTIVE EQUIPMENT. USE

ABSORBENT MATERIAL SUCH AS CLAY, SOIL OR USE PUMP. TRANSFER TO A

SUITABLE CONTAINER FOR DISPOS

AL OR REUSE.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

Other Precautions:DO NOT GET IN EYES, ON SKIN, ON CLOTHING. EMPTY CONTAINERS RETAIN RESIDUE. DO NOT REUSE CONTAINER UNLESS PROPERLY RECONDITIONED. KEEP OUT OF REACH OF CHILDREN. WASH THOROUGHLY AFTER HANDLING.

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

Respiratory Protection:NONE NORMALLY REQUIRED.

Ventilation:GENERAL VENTILATION IS SUFFICIENT.

Protective Gloves:NEOPRENE/NITRILE

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:SAFETY SHOWER AND EYE WASH FOUNTAIN SHOULD BE LOCATED NEARBY. WEAR APPROPRIATE PROTECTIVE CLOTHING FOR RISK OF EXPOSURE.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Safety and Health

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

HCC:B3

NRC/State Lic Num:NOT RELEVANT

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

Melt/Freeze Pt:M.P/F.P Text:32.0F,0.0C

Spec Gravity:1.1080

pH:12

Solubility in Water:COMPLETE

Appearance and Odor:DARK PURPLE LIQUID - SLIGHT SULFIDE ODOR

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS, STRONG OXIDIZING AGENTS,

**STRONG REDUCING AGENTS**

Stability Condition to Avoid:EXCESSIVE HEAT, OPEN FLAME

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE MAY BE FORMED.

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

Waste Disposal Methods:CONTACT FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATORS FOR GUIDANCE REGARDING PROPER DISPOSAL. THIS MATERIAL, AS A WASTE, IS NOT CONSIDERED A RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) HAZARDOUS WASTE.

Disclaimer (provided

with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.