



Chemical Name: Cooling system cleaner

Manufacturer: CAT

Container size: ½ gallon

Location: VLA

Disposal: Place empty container in trash.

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

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===== 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

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===== 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 MERCAPTOBENZOTHIAZOLE
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
ABSORBTION CAN OCCUR. INHALATION IS UNLIKELY. HARMFUL IF IN GESTED.
POSSIBLE REPRODUCTIVE 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 SYMPTOMS 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 NE EDED. 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.

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

Flash Point:NONE
Lower Limits:NOT RELEVANT
Upper Limits:NOT RELEVANT
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.

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===== 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 DISPOSAL OR REUSE.
Neutralizing Agent:NOT RELEVANT

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===== 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.

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

Respiratory Protection:NONE NORMALLY REQUIRED.
Ventilation:GENERAL VENTILATION IS SUFFICIENT.
Protective Gloves:NEOPRENE/NITRILE
Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLESS
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

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===== 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.

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