

AKZO NOBEL CHEMICALS INC -- CADOX M-50A -- 6810-01-143-7185

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Product Identification  
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Product ID:CADOX M-50A  
MSDS Date:02/25/1998  
FSC:6810  
NIIN:01-143-7185  
Status Code:A  
MSDS Number: CJLFK  
=== Responsible Party ===  
Company Name:AKZO NOBEL CHEMICALS INC  
Address:300 S. RIVERSIDE PLAZA  
City:CHICAGO  
State:IL  
ZIP:60606  
Country:US  
Info Phone Num:800-828-7929  
Emergency Phone Num:914-693-6946  
Resp. Party Other MSDS Num.:MSDS NO. 11-076289  
Chemtrec Ind/Phone:(800)424-9300  
CAGE:97854  
=== Contractor Identification ===  
Company Name:AKZO NOBEL CHEMICALS INC  
Address:300 S. RIVERSIDE PLAZA  
Box:City:CHICAGO  
State:IL  
ZIP:60606-6613  
Country:US  
Phone:312-906-7500 TECH: 800-828-792  
CAGE:97854  
Company Name:MAHOGANY CO.  
Address:1100 ATLANTIC AVENUE  
Box:City:MAYS LANDING  
State:NJ  
ZIP:08330-2006  
Country:US  
Phone:609-625-8101  
Contract Num:SP0450-99-M-NC91  
CAGE:5U815

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Composition/Inform

ation on Ingredients =====

Ingred Name:METHYL ETHYL KETONE PEROXIDE  
CAS:1338-23-4  
RTECS #:EL9450000  
Minumum % Wt:30.  
Maxumum % Wt:35.  
Other REC Limits:NONE RECOMMENDED  
ACGIH STEL:C1.5 MG/M3;C0.2 PPM  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS

Ingred Name:HYDROGEN PEROXIDE  
CAS:7722-84-1  
RTECS #:MX0899000  
Minumum % Wt:0.  
Maxumum % Wt:3.  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1.4 MG/M3;1 PPM  
ACGIH TLV:1.4 MG/M3;1 PPM

Ingred Name:2,2,4-TRIMETHYLPENTANEDIOL-1,3-DIISOBUTYRATE  
CAS:6846-50-0  
M  
inumum % Wt:60.  
Maxumum % Wt:70.  
Other REC Limits:NONE RECOMMENDED

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Minumum % Wt:0.  
Maxumum % Wt:2.  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50(ORAL,RAT) 1017 MG/KG SIMILAR PROD.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS: EYES, SKIN, RESPIRATORY  
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SYSTEM, LIVER, KIDNEYS (NIOSH). ACUTE - INHALATION: VAPOR, MIST OR AEROSOL IS EXPECTED TO BE SEVERELY IRRITATING TO RESPIRATORY TRACT. SKIN CONTACT: SKIN CONTACT CAN CAUSE CHEMICAL BURNS WITH SEVERE BLISTERING. EYE CONTACT: DIRECT EYE CONTACT WITH THIS CHEMICAL CAN CAUSE AN IMMEDIATE SEVERE REACTION AND MAY RESULT IN LOSS OF FUNCTIONAL VISION IN THE INVOLVED EYE. USE OF FULLY PROTECTIVE GOGGLES IS ESSENTIAL WHEN USING THIS PRODUCT. INGESTION: IF SWALLOWED, THIS MATERIAL CAN CAUSE SEVERE IRRITATION OR BURNS OF THE MOUTH, THROAT, ESOPHAGUS AND STOMACH. CHRONIC - SEVERE RESPIRATORY IRRITATION.

Explanation of Carcinogenicity: THIS PRODUCT IS NOT CLASSIFIED AS A CARCINOGEN BY IARC, NTP, OSHA OR ACGIH.

Effects of Overexposure: INHALATION OF VAPOR, MIST OR AEROSOL IS EXPECTED TO BE SEVERELY IRRITATING TO THE RESPIRATORY TRACT. SKIN CONTACT CAN CAUSE CHEMICAL BURNS WITH SEVERE BLISTERING. DIRECT EYE CONTACT WITH THIS CHEMICAL CAN CAUSE AN IMMEDIATE SEVERE REACTION AND MAY RESULT IN LOSS OF FUNCTIONAL VISION IN THE INVOLVED EYE. IF SWALLOWED, THIS MATERIAL CAN CAUSE SEVERE IRRITATION OR BURNS OF THE MOUTH, THROAT, ESOPHAGUS AND STOMACH.

Medical Condition Aggravated by Exposure: PERSONS WITH PRE-EXISTING SKIN AND/OR RESPIRATORY DISEASE MAY BE AT INCREASED RISK IF EXPOSED TO THIS PRODUCT.

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

First Aid: INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN WITH A PHYSICIAN'S ADVICE. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION. EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LARGE QUANTITIES OF RUNNING WATER FOR A MINIMUM OF 15 MINUTES. HOLD EYELIDS APART DURING FLUSHING. DO NOT NEUTRALIZE WITH CHEMICAL AGENTS. OBTAIN MEDICAL ATTENTION AS SOON AS POSSIBLE. SKIN CONTACT: IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES. WASH SKIN WITH SOAP AND PLENTY OF WATER. DO NOT NEUTRALIZE WITH CHEMICAL AGENTS. INGESTION: DO NOT INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY. GIVE VICTIM PLENTY OF WATER.

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

Flash Point Method: SCC

Flash Point: =82.C, 179.6F

Autoignition Temp: Autoignition Temp Text: N/D

Lower Limits: N/D

Upper Limits: N/D

Extinguishing Media: USE WATER FOG, DRY CHEMICAL, CARBON DIOXIDE, OR FOAM EXTINGUISHING AGENTS. EXTINGUISH LARGE FIRES WITH LARGE AMOUNTS OF WATER SPRAY, FOG OR FOAM FROM

A SAFE/PROTECTED POSITION.

Fire Fighting Procedures:AS IN ANY FIRE, PREVENT HUMAN EXPOSURE TO FIRE, SMOKE, FUMES OR PRODUCTS OF COMBUSTION. EVACUATE NON-ESSENTIAL PERSONNEL FORM THE FIRE AREA. FIREFIGHTERS SHOULD WEAR FULL-FACE, SELF-CONTAINED BREATHIN G APPARATUS AND IMPERVIOUS PROTECTIVE CLOTHING. IF POSSIBLE, MOVE CONTAINERS FROM THE FIRE AREA.

Unusual Fire/Explosion Hazard:IF NOT LEAKING, KEEP FIRE EXPOSED CONTAINERS COOL WITH A WATER FOG OR SPRAY TO PREVENT RUPTURE DUE TO EXCESSIVE HEAT. HIGH PRESSURE WATER MAY SPREAD PRODUCT FROM BROKEN CONTAINERS INCREASING CONTAMINA TION OR FIRE HAZARD.

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

Spill Release Procedures:REMOVE ALL SOURCES OF IGNITION FROM SPILL AREA. STOP SOURCE OF SPILL. USE NON-SPARKING TOOLS. DIKE AREA. EVACUATE ALL NON-ESSENTIAL PERSONNEL UPWIND. WEAR A NIOSH-APPROVED, POSITIVE PRESSURE SELF-CONT AINED BREATHING APPARATUS AND PROTECTIVE EQUIPMENT. S

OAK UP LIQUID WITH A SUITABLE ABSORBENT. SWEEP UP ABSORBED MATERIAL AND PLACE IN A CHEMICAL WASTE CONTAINER FOR DISPOSAL.

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

Handling and Storage Precautions:TO ENSURE PRODUCT QUALITY, STORAGE TEMPERATURES SHOULD NOT EXCEED 86F (30C). TO PREVENT POSSIBLE SELF-ACCELERATING DECOMPOSITION, TEMEPRATURES IN STORAGE FACILITY MUST NOT EXCEED 131F (55C). KEEP CON TAINER TIGHTLY CLOSED. STORE AWAY FROM AMINES, ACI DS, ALKALIS AND HEAVY METAL COMPOUNDS (METAL SOAP)

Other Precautions:WEAR PROTECTIVE CLOTHING WHEN HANDLING PRODUCT. WASH THOROUGHLY AFTER HANDLING. ELECTRICALLY GROUNDED TANKS AND CONTAINERS SHOULD ALWAYS BE USED AS SHOULD NON-SPARKING, ELECTRICALLY GROUNDED HAND TOOL S AND APPLIANCES. EMPTIED CONTAINER MAY RETAIN PRODUCT RESIDUES. FOLLOW ALL WARNINGS EVEN AFTER CONT AINER IS EMPTIED.

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

Respiratory Prote

ction:USE A NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR WITH DUST, MIST AND FUME FILTERS TO REDUCE POTENTIAL FOR INHALATION EXPOSURE IF USE CONDITIONS GENERATE VAPOR, MIST OR AEROSOL AND ADEQUATE VENTILATION IS NOT AVAILABLE. WHERE EXPOSURE POTENTIAL NECESSITATES A HIGHER LEVEL OF PROTECTION, USE A NIOSH-APPROVED, POSITIVE PRESSURE AIR-SUPPLIED RESPIRATOR.

Ventilation:LOCAL EXHAUST VENTILATION, ENCLOSED SYSTEM DESIGN, CONTINUOUS MONITORING DEVICES, PROCESS ISOLATION AND REMOTE CONTROL

ARE TECHNIQUES TO BE USED.

Protective Gloves:PERMEATION RESISTANT

Eye Protection:CHEMICAL GOGGLES AND/OR A FULL FACE SHIELD

Other Protective Equipment:SAFETY SHOWERS AND EYE WASH FOUNTAINS.

Work Hygienic Practices:UNPROTECTED SKIN EXPOSED TO VAPOR, AEROSOL OR MIST MUST BE THOROUGHLY WASHED BEFORE EATING, DRINKING, SMOKING AND AT THE END OF THE WORKSHIFT.

Supplemental Safety and Health

DANGER! ORGANIC PEROXIDE. HEAT OR CONTAMINATION MAY CAUSE HAZARDOUS DECOMPOSITION. CA

USES SEVERE EYE AND SKIN BURNS. CAUSES RESPIRATORY TRACT IRRITATION. COMBUSTIBLE LIQUID AND VAPORS.

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

HCC:P1

Boiling Pt:B.P. Text:N/D

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

Vapor Pres:N/D

Vapor Density:N/D

Spec Gravity:1.0 @ 20 DEG C

pH:N/D

Evaporation Rate & Reference:N/D

Solubility in Water:N/D

Appearance and Odor:CLEAR, COLORLESS LIQUID WITH A FAINT KETONE ODOR.

Percent Volatiles by Volume:N/D

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH STRONG ACIDS, STRONG ALKALIS, STRONG OXIDIZERS, ACCELERATORS AND REDUCING AGENTS.

Stability Condition to Avoid:THIS PRODUCT IS STABLE AT TEMPERATURES UP TO 131 F. THE SELF-ACCELERATING DECOMPOSITION TEMPERATURE (SADT) IS AN EXPERIMENTALLY DERIVED TEMPERATURE. THE SADT IS 140F (60C).

Hazardous Decomposition Products:DECOMPOSITION PRODUCTS INCLUDE CARBON DIOXIDE, CARBON MONOXIDE,

ETHANE AND METHANE.

Conditions to Avoid Polymerization:HAZARDOUS POLYMERIZATION IS NOT EXPECTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

===== Toxicological Information =====

Toxicological Information:ACUTE LC50 FOR A SIMILAR PRODUCT IS 17 MG/L IN RATS (4 HR EXPOSURE). DERMAL LD50 FOR A SIMILAR PRODUCT IS 4000 MG/KG IN RABBITS.

===== Ecological Information =====

Ecological:THIS PRODUCT IS EXPECTED TO BE READILY BIODEGRADABLE.

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

Waste Disposal Methods:THIS UNUSED PRODUCT IS LISTED BY EPA HAZADROUS WASTE NUMBER U160 (MEKP) AND MEET EPA HAZARDOUS WASTE DEFINITION FOR CHARACTERISTICS OF REACTIVITY (D003) AND CORROSIVITY (D002). IT IS RESPONSIBILITY OF WASTE GENERATOR TO EVALUATE WHETHER WASTE MEETS EPA'S DEFINITION OF HAZARDOUS WASTE BY CHARACTERISTIC OR LISTING.

===== MSDS Transport Information ==  
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Transport Information:THIS MATERIAL CONTAINS METHYL ETHYL KETONE PEROXIDE WHICH IS AN ENVIRONMENTALLY HAZARDOUS MATERIAL PER 49 CFR 172.101 APPENDIX WITH A REPORTABLE QUANTITY OF 28.57 LBS, PER MSDS.

===== Regulatory Information =====

SARA Title III Information:MEKP IS SUBJECT TO: CERCLA HAZARDOUS SUBSTANCES. HYDROGEN PEROXIDE I SSUBJECT TO SARA TITLE III, SECTION 302.

Federal Regulatory Information:MEKP, HYDROGEN PEROXIDE,

2,2,4-TRIMETHYLPENTANEDIOL-1,3-DIISOBUTYRATE AND WATER ARE SUBJECT TO: TOXIC SUBSTANCE CONTROL ACT (LISTED).

State Regulatory Information:METHYL ETHYL KETONE PEROXIDE AND HYDROGEN PEROXIDE ARE SUBJECT TO THE FOLLOWING ENVIRONMENTAL LIST: MASSACHUSETTS SUBSTANCE LIST. NEW JERSEY R-T-K HAZARD SUB. PENN HAZARDOUS SUBSTANCE LIST.

===== Other Information =====

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mation 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.