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AKZO NOBEL CHEMICALS INC -- CADOX M-50A -- 6810-01-120-0408

Product ID:CADOX M-50A MSDS Date:04/01/1999

FSC:6810

NIIN:01-120-0408

MSDS Number: CJSRX === Responsible Party ===

Company Name: AKZO NOBEL CHEMICALS INC

Address:300 SOUTH RIVERSIDE PLAZA

City:CHICAGO

State:IL

ZIP:60606-6613 Country:US

Info Phone Num:312-906-7500 TECH: 800-828-792

Emergency Phone Num:ME

D:914-693-6946 TRANS:800-424-9300

Resp. Party Other MSDS Num.: MSDS NO: 11-076289 REVISION NO: 007

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:SP0-450-01-

M-D299

CAGE:5U815

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:SP0450-00-M-D439

CAGE:5U815

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:SP0450-00-M-D894

CAGE:5U815

Company Name: MAHOGANY CO. Address: 1100 ATLANTIC AVENUE

Box:City:MAYS LANDING

State:NJ

ZIP:08330-2006

Country:US

Phone:609-625-8101

Contrac

t Num:SP0450-00-M-SC53

CAGE:5U815

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:SP0450-01-M-ZA31

CAGE:5U815

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-NJ39

CAGE:5U815

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

Ingred Name: METHYL ETHYL KETONE PEROXIDE

CAS:1338-2

3-4

RTECS #:EL9450000

Minumum % Wt:30.

Maxumum % Wt:35.

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.

OSHA PEL:1.4 MG/M3;1 PPM ACGIH TLV:1.4 MG/M3;1 PPM

Ingred Name:2,2,,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE

CAS:6846-50-0

RTECS #:SA1420000

Minumum % Wt:60.

Maxumum % Wt:70.

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:0.

Maxumum % Wt:2.

Ingred Name:METHYL

ETHYL KETONE

CAS:78-93-3

RTECS #:EL6475000

Minumum % Wt:0.

Maxumum % Wt:2.

OSHA PEL:590 MG/M3;200 PPM ACGIH TLV:590 MG/M3;200 PPM ACGIH STEL:885 MG/M3;300 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

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

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: SKIN, EYES & RESPIRATORY SYSTEM. INHALATION-INHALATION OF VAPOR, MI

ST OR AEROSOL

IS EXPECTED TO BE SEVERELY IRRITATING TO THE RESPIRATORY TRACT. SKIN-SKIN CONTACT CAN CAUSE CHEMICAL BUR NS WITH SEVERE BLISTERING. EYE-DIRECT EYE CONTACT WITH THIS CHEMICAL CAN CAUSE AN IMMEDIATE SEVERE REACTION & MAY RESULT IN LOSS OF FUNCTIONAL VISION IN THE INVOLVED EYE. USE OF FULLY PROTECTIVE GOGGL ES IS ESSENTIAL WHEN USING THIS PRODUCT. INGESTION-IF SWALLOWED, THIS MATERIAL CAN CAUSE SEVERE IRRITATION OR BURNS OF THE MOUTH, THROAT, ESOPHAGUS &

STOMACH.

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

Effects of Overexposure:SKIN-SEVERE BLISTERING. INHALATION: SEVER IRRITATION OF RESPIRATORY TRACT. EYES: IMMEDIATE SEVERE REACTION, MAY CAUSE IN LOSS OF FUNCTIONAL VISION. INGESTED: SEVERE IRRITATION OR BURNS OF THE MOUTH, T HROAT, ESOHPAGUS AND STOMACH.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN AND/OR RESPIRATORY DISEASE MAY BE AT INC

REASED RISK IF EXPOSED TO THIS MATERIAL.

First Aid:INHALE-REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, OXYGEN MAY BE GIVEN, PREFER W/ PHYSICIAN'S ADVICE. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL AID. SKIN-IMMEDIATELY REMOVE C ONTAMINATED CLOTHING/SHOES. WASH SKIN W/SOAP & WATER FOR 15 MINS. DO NOT NEUTRALIZE W/CHEMICAL AGENTS. WASH CLOTHING, DESTROY SHOES. EYE-IMMEDIATELY FL

USH EYES W/LARGE

QUANTITIES WATER MINIMUM 15 MI NUTES. IF CONTACT LENSES, REMOVE THEM. HOLD EYELIDS APART, ENSURE RINSING OF SURFACE OF EYE & LIDS. INGESTION-DO NOT INDUCE VOMITING. CALL PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY. GIVE VICTIM PLE NTY OF WATER TO DRINK. GET MEDICAL AID.

========== 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 Lim

its: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:EVACUATE NON-ESSENTIAL PERSONNEL FROM FIRE AREA. FIREFIGHTERS WEAR FULL-FACE, SELF-CONTAINED BREATHING APPARATUS & IMPERVIOUS PROTECTIVE CLOTHING. IF POSSIBLE, MOVE CONTAINERS FROM FIRE AREA. IF NOT L EAKING, KEEP FIRE EXPOSED CONTAINERS COOL WIT
- H WATER FOG OR SPRAY TO PREVENT RUPTURE DUE TO EXCESSIVE HEAT.
- Unusual Fire/Explosion Hazard:THIS PRODUCT IS A COMBUSTIBLE LIQUID.
 PEROXIDES & PEROXIDE DECOMPOSITION PRODUCTS ARE FLAMMABLE & CAN
 IGNITE WITH EXPLOSIVE FORCE IF CONFINED. THIS PRODUCT CAN PRODUCE
 FLAMMABLE VAPORS WHICH MAY TRAVE L TO A SOURCE OF IGNITION & FLASH
 BACK.

======= Ac	cidental Release Measure	S ===========
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- Spill Release Procedures:REMOVE SOURCES OF IGNITION FROM AREA. STOP SOUR
- CE OF SPILL. IF TOOLS NEEDED, USE NON-SPARKING. DIKE AREA TO PREVENT SPREADING SPILL. EVACUATE NON-ESSENTIAL PERSONNEL UPWIND. PERSON ENTERING AN AREA OF SIGNIFICANT SPILL OR UNKNOWN, CONCENTRATION OF GAS OR VAPOR: USE NIOSH-APPROVED, POSITIVE-PRESSURE/PRESSURE DEMAND, SCBA. PROTECT SKIN & EYES. SOAK UP SPILL WITH ABSORBENT & PLACE IN CONTAINER.

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

Handling and Storage Precautions:WEAR PROTECTIVE CLOTHING TO AVOID EYE

& SKIN CONTACT. WASH THOROUGHLY AFTER HANDLING. ELECTRICALLY GROUNDED TANKS & CONTAINERS ALWAYS USED AS NON-SPARKING, ELECTRICALLY GROUNDED HAND TOOLS & APPLIANCE S. GROUND OR BOND TO GROUND VESSELS WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC ELECTRICITY.

Other Precautions:SEE NATIONAL ELECTRIC CODE ON HANDLING/ STORAGE. TO INSURE PRODUCT QUALITY, STORAGE TEMPS SHOULD NOT EXCEED MAX STORAGE TEMP: 86F/30C. TO PREVENT POSSIBLE SELF-ACCELERATING DECOM

POSITION

TEMP MUST NOT EXCEED 131F (55C). STORE AWAY FROM AMINES, ACIDS ALKALIS & HEAVY METAL COMPOUNDS. (DRIERS, METAL SO APS & ACCELERATORS).

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

Respiratory Protection:USE NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR WITH DUST/MIST/FUME FILTERS TO REDUCE POTENTIAL FOR INHALATION EXPOSURE IF USE CONDITIONS GENERATE VAPOR/MIST/AEROSOL & ADEQUATE VENTILATION.(WELL-VENTILAT ED AREA) NOT AVAILABLE. WHERE EXPOSUR E

NECESSITATES HIGHER LEVEL OF PROTECTION, USE NIOSH-APPROVED, POSITIVE-PRESSURE/PRESSURE-DEMAND, AIR-SUPPLIED RESPIRATOR.

Ventilation:LOCAL EXHAUST VENTILATION, ENCLOSED SYSTEM DESIGN, CONTINUOUS MONITORING DEVICES, PROCESS ISOLATION & REMOTE CONTROL ARE TRADITIONAL EXPOSURE CONTROL TECHNIQUES

Protective Gloves: PERMEATION RESISTANT GLOVES.

Eye Protection: CHEMICAL GOGGLES &/OR A FULL FACE SHIELD MUST BE WORN WHENEVER HANDLING PRODUCT

Other Protective Equipment: SAFETY SHOWERS

, WITH QUICK OPENING VALVES

THAT STAY OPEN, EYE WASH FOUNTAINS, WITH GENTLE FLOW OF COOL TO TEPID TAP WATER, READILY AVAILABLE IN ALL AREAS WHERE MATERIAL IS HANDLED/STORED.

Work Hygienic Practices:WATER SUPPLIED THRU INSULATED & HEAT-TRACED LINES TO PREVENT FREEZE-UPS IN COLD WEATHER. UNPROTECTED SKIN EXPOSED TO VAPOR, AEROSOL OR MIST MUST BE THOROUGHLY WASHED BEFORE EATING, DRINKING & END WORK.

Supplemental Safety and Health

WHEN USING RESPIRATOR CARTRIDGES OR CANISTER

S, THEY MUST BE CHANGED

FREQUENTLY (FOLLOWING EACH USE OR AT THE END OF THE WORKSHIFT) TO ASSURE BREAKTHROUGH EXPOSURE DOES NOT OCCUR. ABBREVIATIONS: N/D = NOT DETERMINED.

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

HCC:P1

Boiling Pt:B.P. Text:NOT DETERMINED

Melt/Freeze Pt:M.P/F.P Text:NOT DETERMINED

Vapor Pres: NOT DETERMINED

Vapor Density:N/D

Spec Gravity:1.0@20DEGC(68DEG F)

pH:N/D

Viscosity:NOT DETERMINED

Evaporation Rate & DETERMINED

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olubility in Water:NOT DETERMINED
Appearance and Odor:CLEAR, COLORLESS LIQUID WITH A FAINT KETONE ODOR.
========= Stability and Reactivity Data ==========
Stability Indicator/Materials to Avoid:YES
AVOID CONTACT WITH STRONG ACIDS, STRONG ALKALIS, STRONG OXIDIZERS, ACCELERATORS & REDUCING AGENTS.
Stability Condition to Avoid:PRODUCT IS STABLE AT TEMPERATURES UP TO 131F (55C). TEMPERATURE BASED ON SELF-ACCELERATING DECOMPOSITION TEMPERATURE (SADT). FOR THIS PRODUCT, (SADT) IS 140F (60C).
Hazardous Decomposition Products:DECOMPOSITION PRODUCTS:CARBON DIOXIDE,
CARBON MONOXIDE, ETHANE, METHANE. HAZARDOUS/UNCONTROLLABLE DECOMPOSITION MAY OCCUR IF PRODUCT EXPOSED TO TEMPERATURES ABOVE 131F (55C).
Conditions to Avoid Polymerization:HAZARDOUS POLYMERIZATION IS NOT EXPECTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.
========= Toxicological Information ==========
Toxicological Information:TARGET ORGANS: EXPOSURE TO THIS PR
ODUCT MAY AFFECT THE SKIN, EYES & RESPIRATORY. REPRODUCTIVE EFFECTS:
DEVELOPMENT INHALATION TOXICITY STUDIES WITH METHYL ETHYL KETONE IN
RATS & MICE RESULTED IN FETAL TOXICITY AT MATERNALLY TOXIC DOSES.
INHALATION-INHALATION TOXICITY DATA IS NOT AVAILABLE.
INHALATIONPROLONGED/REPEATED INHALATION IS EXPECTED TO BE SEVERELY IRRITATING TO THE RESPIRATORY SYSTEM. DERM AL-DERMAL TOXICITY DATA
IS NOT AVAILABLE FOR THIS PRODUCT. EYETHIS PRODUCT CAN BE EXPECTED TO BE COR
ROSIVE TO EYES BASED UPON TESTS WITH A SIMILIAR PRODUCT.
========= Ecological Information ============
Ecological:ECOTOXICOLOGICAL INFORMATION: THE ECOLOGICAL TOXICITY OF THIS PRODUCT IS NOT KNOWN. DISTRIBUTION: OTHER ECOLOGICAL INFORMATION ON THIS PRODUCT IS NOT KNOWN. CHEMICAL FATE: THIS PRODUCT IS EXPECTED TO BE READILY BIODEGRADABLE.
======== Disposal Considerations ============
Waste Disposal Methods:UNUSED PRODUCT LISTED BY EPA

HAZARDOUS WASTE NBR

U160 (EKP) & MEETS EPA HAZARDOUS WASTE DEFINITIONS FOR REACTIVITY (D003) & CORROSIVITY (D002). RESPONSIBILITY OF WASTE GENERATOR TO EVALUATE WHETHER WA STE MEETS EPS'S DEFINITION OF HAZARD WASTE BY CHARACTERISTIC OR LISTING. DISPOSE OF IN ACCORD WITH LOCAL, STATE & FEDERAL REGULATIONS.

======== MSDS Transport Information ===========

Transport Information:SHIPPING DESCRIPTION: ORGANIC PEROXIDE TYPE E, LIQUID (METHYL ETHYL KETONE PEROXIDE,