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EMERSON & CUMING INC -- CATALYST 11 -- 8040-00-814-1128

Product ID:CATALYST 11 MSDS Date:03/30/1993

FSC:8040

NIIN:00-814-1128

MSDS Number: CCBFM === Responsible Party ===

Company Name: EMERSON & CUMING INC

Address:77 DRAGON COURT

City:WOBURN

State:MA ZIP:01888 Country:US

Info Phone Num:617-928-3300

Emergency Phone Num:617-935-4850; 617-938-8630

Preparer's Name:DAV

ID HAAS

CAGE:0VVR7

=== Contractor Identification ===

Company Name: EMERSON & CUMING INC

Address:77 DRAGON COURT

Box:City:WOBURN

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Phone:617-935-4850;617-938-8630

CAGE:0VVR7

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

Ingred Name:M-PHENYLENEDIAMINE; (M-PHENYLENE DIAMINE)

CAS:108-45-2

RTECS #:SS7700000 Fraction by Wt: 70-80%

OSHA PEL:N/K

ACGIH TLV:0.1 MG/M3

Ingred Name:2-PYRROLIDINONE, 1-METHYL-; (N-METHYL PYRROLIDONE)

CAS:872-50-4 RTECS #:UY 5790000

Fraction by Wt: 20-30%

OSHA PEL:N/K ACGIH TLV:N/K

Ingred Name: VOLATILE ORGANIC COMPOUND: 540.5 G/L (EPA TEST METHOD 24)

RTECS #:9999999VO

OSHA PEL:N/K ACGIH TLV:N/K

Ingred Name:SUPDAT:TEST ANIMALS INDICATE N-METHYL PYRROLIDONE MAY BE EMBRYOTOX BY ORAL & INTERPERITONEAL ROUTES. TERTATOGENIC(ING 5) RTECS #:9999992Z

Ingred Name:ING 4:EFTS HAVE RSLTD ONLY AT MATERNALLY TOX DOSAGE LEVELS.
THESE EFTS WERE NOT REPORTED AT DOSE LEVELS TOLERATED(ING 6)
RTECS #:9999999ZZ

Ingred Na

me:ING 5:BY MOTHER. EXPERIENCE TO DATE HAS NOT SHOWN TERATOGENIC EFTS IN HUMANS. M-PHENYLENE DIAMINE MAY CAUSE LIVER(ING 7)

RTECS #:9999999ZZ

Ingred Name:ING 6:& KIDNEY EFTS AS REST OF SHORT INHAL, INGEST OR SKIN EXPOS, BASED ON TESTS ON LAB ANIMALS. THIS CMPD HAS (ING 8) RTECS #:9999999ZZ

Ingred Name:ING 7:BEEN DETERMD TO CAUSE MUTAGENIC CHGS IN CULTURED BACTERIAL & MAMMALIAN CELLS; HOWEVER IT HAS NOT SHOWN ANY (ING 9) RTECS #:9999999ZZ

Ingred Name: ING 8: CARCINOGENIC ACTIVIT

Υ

RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC: DILUTE BY GIVING PLENTY OF WATER TO DRINK IF CONSCIOUS & ALERT. NEVER GIVE ANYTHING BY MOUTH TO (ING 11) RTECS #:9999999ZZ

Ingred Name:ING 10: DROWSY, UNCONSCIOUS OR CONVULSING PERSON. GET IMMED ATTN.

RTECS #:9999999ZZ

Ingred Name:SPILL PROC: VERMICULITE/OTHER SIMILAR MATL. WASH AREA W/SOAPY WATER TO REMOVE RESIDUE. COLLECT ABSORBED MATL & (ING 13) RTECS #:9999999ZZ

Ingred Name: ING 12: WATER RINSES IN APPROP CNTNRS. LG SPILLS: LIM A

CCESS

TO IMMED SPILL AREA. SHUT OFF SOURCE OF RELS IF THIS(ING 14) RTECS #:9999999ZZ

Ingred Name:ING 13: CAN BE DONE W/OUT RISK OF INJURY. ACTIVATE AVAIL EXHST VENT SYS IN AREA. DIKE AREA TO CNTN SPILL & PVNT (ING 15) RTECS #:9999992Z

Ingred Name:ING 14: RELEASES TO SEWERS, DRAINS OR OTHER WATERWAYS. COLLECT SPILLED MATL FOR SALVAGE/DISP. APPLY ABSORB MATL (ING 16) RTECS #:9999999ZZ

Ingred Name:ING 15:TO SOAK UP RESIDUE. WASH AREA W/SOAPY WATER. PVNT RUNOFF FROM ENTERING WATE

RWAYS. TRANSFER ABSORBED MATL (ING 17)

RTECS #:9999999ZZ

Ingred Name:ING 16: & WATER RINSES TO APPROP WASTE CONTAINERS. RTECS #:9999992Z

Ingred Name:HNDLG/STOR PRECS: TECHNICAL BULLETIN FOR DETAILED STORAGE INFORMATION.
RTECS #:9999992Z

Ingred Name:OTHER PRECS: INTENDED USAGE CNDTNS & EQUIP. EMPLOYEES MUST BE PROPERLY TRAINED IN SAFE HNDLG OF PROD PRIOR TO (ING 20) RTECS #:9999992Z

Ingred Name:ING 19: USE. PROD CAN CAUSE SEV EYE IRRIT, SKIN IRRIT & MAY CAUSE ALLERGIC SKIN RXNS
. COMPONENTS OF PROD MAY (ING 21)
RTECS #:9999999ZZ

Ingred Name: ING 20: ALSO BE ABSORBED THRU SKIN. RTECS #:9999999ZZ

Ingred Name: VENT: PVNT ROUTINE INHAL. THIS IS NEC ESP DURING ELEVATED TEMP PROCESSING. VENT MUST BE SUFFICIENT TO MAINTAIN (ING 23) RTECS #:9999992Z

Ingred Name:ING 22: AIRBORNE LEVELS OF LISTED INGREDS BELOW THEIR PEL/TLV VALUES.
RTECS #:9999992Z

Ingred Name:PROT GLOVES: ROUTINE WORK; BUTYL RUBBER GLOVES ARE RECOM FOR WORK WHERE DIRECT CNTCT W/LIQ IS MORE LIKEL

Y. RTECS #:9999992Z

Ingred Name:OTHER PROT EQUIP: PREVENT SKIN CONTACT, CONTAMINATION OF CLOTHING & POSSIBLE SKIN ABSORPTION.

RTECS #:9999999ZZ

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

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:EYES:CNTNS MATLS SEV IRRIT TO EYES.

SYMPS MAY INCL BLURRED VISION, BURNING SENSATI

ON & TEARING.

SKIN:CNTNS MATLS WHICH CAUSE MOD IRRIT. PRLNGD/RPTD EXPOS TO LIQ MAY EXERT DEFAT/DRYING ACTION ON SKIN, POSS RSLTG IN DERM. PROD MAY CAUSE SKINSENSIT/ALLERGIC SKIN RXNS WHICH MAY BE SEV IN CERTAIN PERS; (EFTS OF OVEREXP)

Explanation of Carcinogenicity: NOT RELEVANT

Effects of Overexposure:HLTH HAZ:SYMPS INCL RASH, ITCH, HIVES, SWELL OF EXTREMITIES. MAY BE ABSORBED THRU SKIN. PROD MAY CAUSE TEMPORARY, ORANGE-BROWN STAIN OF SKIN; NO ADVERSE EFTS ARE KNOWN TO R SLT.

INHAL:HEATING CAN GENER ATE VAPS THAT MAY CAUSE RESP IRRIT, NAUS & HDCH. INHAL HAZ AT ROOM TEMP IS UNLIKELY DUE TO LOW VOLAT OF PROD. (SUPDAT)

Medical Cond Aggravated by Exposure: EXPOSURE MAY AGGRAVATE PREEXISTING SKIN AND/OR EYE DISORDERS.

First Aid:EYE: FLUSH THORO W/WATER FOR AT LEAST 15 MIN WHILE HOLDING EYELIDS OPEN. GET MED ATTN. SKIN: REMOVE ANY CONTAMD CLTHG & FLUSH AREA THORO W/PLENTY OF

WATER. FOLLOW BY WASHING W/SOAP & WATER. GET MED AT TN IF IRRIT PERSISTS. DO NOT REUSE CONTAMD CLTHG UNTIL PROPERLY CLEANED. INHAL:REMOVE TO FRESH AIR. PROVIDE OXYGEN IF BRTHG IS DFCLT. GIVE ARTF RESP IF NOT BRTHG. GET IMMED MED ATTN. INGEST: (ING 10)

Flash Point Method:PMCC Flash Point:>200F,>93C

Extinguishing Media: USE CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER FOG.

Fire Fighting Procedures: USE NIOSH/MSHA APP

RVD SCBA & FULL PROT EQUIP. COOL EXPOS CNTNRS W/WATER TO PVNT PRESS BUILDUP. IF LG QTYS OF MATL ARE INVOLVED, EVACUATE AREA & (SUPDAT) Unusual Fire/Explosion Hazard: DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC. CLOSED CONTAINERS MAY VIOLENTLY RUPTURE UNDER FIRE CONDITIONS. ========= Accidental Release Measures ================ Spill Release Procedures: SPILL RESPONSE OPERATIONS MUST BE CONDUCTED I/A/W PROVISIONS OF OSHA 29CFR 1910.120. REVIEW ENTIRE MSDS **BEFORE** PROCEEDING W/SPILL RESPONSE. SM SPILLS:ACTIVATE AVAIL EXHST VENT EQUIP IN IMMED SPILL ARE A. WIPE UP/ABSORB SPILLED MATL WITH (ING Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. ============ Handling and Storage =========================== Handling and Storage Precautions: STORE IN COOL, DRY LOCATION W/ADEQ VENT. KEEP CNTNR TIGHTLY SEALED WHEN NOT IN USE. KEEP AWAY FROM OPEN FLAMES & HEAT SOURCES. CONSULT PROD (ING 18) Other Precautions: RECOMS FOR HNDLG PRECS ARE PROVIDED AS GEN GUIDANCE FOR MINIMIZING EXPOS WHEN HNDLG PROD. BECAUSE USAGE CNDTNS WILL VARY DEPENDING ON CUSTOMER APPLICATN, SPECIFIC SAFE HNDLG PROCS SHOULD BE DEVELOPED BY PERSON KNOWLEDGEABLE IN (ING 19) ===== Exposure Controls/Personal Protection ======== Respiratory Protection: USE APPROP, PROPERLY FITTED, NIOSH/MSHA APPRVD RESPIRATOR IF EXPOSURES EXCEED PEL/TLV VALUES. THE TYPE OF PROT SELECTED (SCBA, AIR-PURIFYING, ETC) WILL DEPEND ON CONDI

TIONS OF

USE. OBSERVE OSHA REGS F OR RESPIRATORY PROT (29 CFR 1910.134).

Ventilation: PROVIDE EFTIVE MECH EXHST VENT TO DRAW VAPS, MISTS OR FUMES GENERATED DURING PROCESSING AWAY FROM WORKER & (ING 22)

Protective Gloves: NEOPRENE GLOVES RECOM FOR (ING 24)

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES.

Other Protective Equipment: ANSI APPROVED EYE WASH & DELUGE SHOWER. WEAR PROPER CHEM-RESISTANT APRON & ADDNL IMPERVIOUS CLTHG TO (ING

Work Hygienic Practices: NORM WORK CLTHG SH

OULD BE WASHED BEFORE REUSE. WASH HANDS & FACE THORO AFTER HANDLG PROD & BEFORE EATING/DRINKING/SMKNG. Supplemental Safety and Health SPEC GRAV: 1.02-1.14 (H*2O=1). FIRE FIGHT PROC:FIGHT FIRES FROM A SAFE DIST. CNDTN TO AVOID:AGENTS OR EXPOS TO INCOMPAT SUBSTANCES. HAZ DECOMP PRODS: COMBUST. CHEM NATURE & QTY OF DECOMP BY-PRODS WILL VARY WIDELY DEPENDING ON CNDTNS OF COMBUST. EFTS OF OVEREXP: INGEST: HARMFUL IF SWALLOWED. CHRONIC: STUDIES W/LAB (ING 4) ======= P hysical/Chemical Properties ========= Spec Gravity:SUPDAT Appearance and Odor:DARK BROWN LIQUID. ======== Stability and Reactivity Data =========== Stability Indicator/Materials to Avoid:YES INCOMPATIBLE WITH STRONG OXIDIZERS, ACIDS, BASES, EPOXIES. Stability Condition to Avoid: AVOID STOR IN OPEN CNTNRS, EXPOS TO OPEN FLAME OR UNCONTROLLED EXPOS TO HEAT, UNCONTROLLED MIXING W/CURING (SUPDAT) Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES, AMINES, ANILINE, ACIDS & OTHER ORG SUBSTANCES MAY BE FORMED DURING (SUPDAT)

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

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH CURRENT FEDERAL. STATE AND LOCAL REGULATIONS.

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