

EMERSON AND CUMING -- CATALYST 11 (SEE SUPPL) -- 5970-00-081-4333

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

Product ID:CATALYST 11 (SEE SUPPL)

MSDS Date:03/14/2000

FSC:5970

NIIN:00-081-4333

Status Code:A

Kit Part:Y

MSDS Number: CLFJB

=== Responsible Party ===

Company Name:EMERSON AND CUMING

Address:46 MANNING ROAD

City:BILLERICA

State:MA

ZIP:01821

Country:US

Info Phone Num:978-436-9781

Emergency Phone N

um:(800)424-9300

Resp. Party Other MSDS Num.:600308, 600358

Preparer's Name:DAVID HAAS

Chemtrec Ind/Phone:(800)424-9300

CAGE:UO004

=== Contractor Identification ===

Company Name:EMERSON AND CUMING

Address:46 MANNING ROAD

Box:City:BILLERICA

State:MA

ZIP:01821

Country:US

Phone:978-436-9781

CAGE:UO004

Company Name:MCKEOWN ROBERT CO. INC.

Address:111 CHAMBERS BROOK RD.

Box:City:SOMERVILLE

State:NJ

ZIP:08876

Country:US

Phone:908-218-9000

Contract Num:SP0430-00-M-H881

CAGE:7B953

Company Name:MCKEOWN R

MAY CAUSE A TEMPORARY, ORANGE-BROWN STAINING OF THE SKIN; NO ADVERSE HEALTH EFFECTS ARE KNOWN TO BE RESULT FROM THIS STAINING. INHALATION: RESPIRATORY IRRITATION, NAUSEA , HEADACHES.

Medical Cond Aggravated by Exposure: PERSONS WITH ASTHMA-TYPE CONDITIONS, CHRONIC BRONCHITIS, OTHER CHRONIC RESPIRATORY DISEASES OR RECURRENT SKIN ECZEMA OR SENSITIZATION SHOULD BE EXCLUDED FROM WORKING WITH PHENYLENE DIAMINES

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===== First Aid Measures =====
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First Aid: EYE CONTACT: FLUSH EYES WITH WATER 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND FLUSH THE AFFECTED AREA OF THE SKIN THOROUGHLY WITH PLEN TY OF WATER. FOLLOW BY WASHING WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. DO NOT REUSE CONTAMINATED CLOTHING UNTIL PROPERLY CLEANED. INHALATION: REMOVE VICTIM TO FRESH AIR. PRO VIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIA L RESPIRATION IF NOT BREATHING. GET IMMEDIATE MEDICAL ATTENTION. INGESTION: DILUTE BY GIVING PLENTY OF WATER TO DRINK, IF VICTIM IS CONSCIOUS AND A LERT. GET MEDICAL ATTENTION.

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===== Fire Fighting Measures =====
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Flash Point Method: PMCC
Flash Point: >93.3C, 200.F
Lower Limits: N/E
Upper Limits: N/E
Extinguishing Media: USE CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER FOG.
Fire Fighting Procedures: FIREFIGHTERS/RESCUE PERSONNEL SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT. COOL EXPOSED CONTAINERS WITH WATER TO PREVENT PRESSURE BUILDUP. IF LARGE Q UANTITIES OF MATERIAL ARE INVOLVED, EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.
Unusual Fire/Explosion Hazard: DECOMPOSTION AND COMBUSTION PRODUCTS MAY BE TOXIC. CLOSED CONTAIENRS MAY VIOLENTLY RUPTURE UNDER FIRE CONDITIONS.

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===== Accidental Release Measures =====
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Spill Release Procedures: STOP SOURCE O

F SPILL. ACTIVATE EXHAUST

VENTILATION IN AREA. DIKE AREA TO PREVENT RELEASES TO SEWERS, DRAINS, WATERWAYS. COLLECT SPILL FOR SALVAGE/DISPOSAL. APPLY ABSORBENT MATERIAL TO SOAK UP RESIDUE. WASH AREA WITH SOAPY WATER. PREVENT RUNOFF FROM ENTERING WATERWAYS. TRANSFER ABSORBED MATERIAL AND WATER RINSES TO CONTAINERS. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

Neutralizing Agent:NOT PROVIDED

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

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Handling and Storage Precautions:EMPLOYEES MUST BE PROPERLY TRAINED IN SAFE HANDLING OF THIS PRODUCT PRIOR TO USE. STORE IN COOL, DRY LOCATION WITH ADEQUATE VENTILATION. KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE. KEEP AWAY FROM OPEN FLAMES AND HEAT SOURCES. CONSULT PRODUCT TECHNICAL BULLETIN FOR DETAILED STORAGE INFORMATION.

Other Precautions:BECAUSE USAGE CONDITIONS VARY DEPENDING ON CUSTOMER APPLICATION, SPECIFIC SAFE HANDLING PROCEDURES SHOULD BE DEVELOPED

BY A PERSON KNOWLEDGEABLE IN THE INTENDED USAGE CONDITIONS, AND EQUIPMENT. EMPLOYEES MUST BE TRAINED IN SAFE HANDLING OF THIS PRODUCT PRIOR TO USE.

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

Respiratory Protection:USE AN APPROPRIATE, PROPERLY FITTED RESPIRATOR IF EXPOSURES EXCEED PEL/TLV VALUES. THE TYPE OF RESPIRATORY PROTECTION SELECTED (SCBA, AIR-PURIFYING, ETC.) WILL DEPEND ON THE CONDITIONS OF USE. OBSERVE OSHA REGULATIONS FOR RESPIRATORY

PROTECTION (29 CFR 1910.134).

Ventilation:PROVIDE EFFECTIVE MECHANICAL EXHAUST VENTILATION

Protective Gloves:WEAR PROTECTIVE GLOVES. NEOPRENE GLOVES OVER RUBBER LATEX GLOVES RECOMMENDED.

Eye Protection:SPLASH-PROOF CHEMICAL GOGGLES, OR FACE SHIELD.

Other Protective Equipment:WEAR APPROPRIATE PROTECTIVE GLOVES, A PROPER CHEMICAL-RESISTANT APRON AND ADDITIONAL IMPERVIOUS CLOTHING TO PREVENT SKIN CONTACT. EMERGENCY EYE WASH

Work Hygienic Practices:WASH HANDS AND FACE THOROUGHLY

AFTER HANDLING

THIS PRODUCT AND BEFORE EATING, DRINKING OR SMOKING. NORMAL WORK CLOTHING SHOULD BE WASHED BEFORE RE-USE.

Supplemental Safety and Health

THIS IS A KIT. THE OTHER MSDS SERIAL NUMBERS: CLFHY, CLFHZ

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Physical/Chemical Properties
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HCC:B2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:NOT DETERMINED

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

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:(MMHG@25C) 70 BY WT

Corrosion Rate:NOT PROVIDE

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Stability and Reactivity Data
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Stability Indicator/Materials to Avoid:YES

INCOMPATIBLE WITH STRONG OXIDIZERS, ACIDS, BASES. UNCONTROLLED MIXING WITH EPOXIDES MAY CAUSE NON-HAZARDOUS POLYMERIZATION OF THE EPOXY.

Stability Condition to Avoid:AVOID STORAGE IN OPEN CONTAINERS, EXPOSURE TO OPEN FLAME OR UNCONTROLLED EXPOSURE TO HEAT, UNCONTROLLED MIXING WITH CURING AGENTS OR EXPOSURE TO INCOMPATIBLE SUBSTANCES.

Hazardous Decomposition Products:CARB

ON MONOXIDE, CARBON DIOXIDE,

ALDEHYDES, AMINES, ANILINE, ACIDS AND OTHER ORGANIC SUBSTANCES MAY BE FORMED DURING COMBUSTION.

Conditions to Avoid Polymerization:HAZARDOUS POLYMERIZATION WILL NOT OCCUR. UNCONTROLLED MIXING WITH EPOXIDES MAY CAUSE

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Toxicological Information
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Toxicological Information:CHRONIC HEALTH EFFECTS:STUDIES WITH LAB TEST ANIMALS INDICATE N-METHYL PYRROLIDONE MAY BE EMBRYOTOXIC BY ORAL AND INTERPERITONEAL ROUTES. T

ERATOGENIC EFFECTS RESULTED ONLY AT

MATERNALLY TOXIC DOSAGES . EFFECTS WERE NOT REPORTED AT DOSE LEVELS TOLERATED BY THE MOTHER. EXPERIENCE HAS NOT DEMONSTRATED TERATOGENIC EFFECTS IN HUMANS. M-PHENYLENE MAY CAUSE LIVER AND KIDNEY EFFECTS AS RESULT OF SHORT IN HALATION, INGESTION, OR SKIN EXPOSURES, BASED ON TESTS ON LAB ANIMALS. THIS COMPOUND HAS BEEN DETERMINED TO CAUSE MUTAGENIC CHANGES IN CULTURED BACTERIAL AND MAMMALIAN CELLS

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Ecological I
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nformation =====

Ecological:NOT PROVIDED

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

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

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

Transport Information:D.O.T. INFORMATION: PHENYLENE DIAMINES; 6.1; UN
1673; PG III. FREIGHT CODE: 2055.

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

SARA Title III

Information:SARA STATUS: THE REPORTABLE SUBSTANCES
REFERENCED IN INGREDIENT SECTION WHICH ARE SUBSTANCES REGULATED BY
THE SARA SECTION 313 AMENDMENTS TO RCRA ARE AS FOLLOWS M-PHENYLENE
DIAMINE (108-45-2)

Federal Regulatory Information:TSCA STATUS: ALL COMPONENTS OF THIS
PRODUCT ARE LISTED IN THE EPA TOXIC SUBSTANCE CONTROL ACT
INVENTORY. THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES WHICH ARE
SUBJECT TO TSCA SECTION 12(B) EXPORT NOTIFICATION REQUIREMENTS:
M-PHENYLENE
DIAMINE (108-45-2).

State Regulatory Information:VOLATILE ORGANIC COMPOUND (V.O.C.) CONTENT
AS TESTED IN ACCORDANCE WITH THE SOUTHERN CALIFORNIA AIR QUALITY
MANAGEMENT DISTRICT RULE 109 (EPA TEST METHOD 24): 540.5 G/L.S

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

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