View NSN Online: https://aerobasegroup.com/nsn/5970-00-081-4333

EMERSON AND CUMING -- CATALYST 11 -- 5970-00-081-4333

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

Product ID:CATALYST 11 MSDS Date:10/31/1998

FSC:5970

NIIN:00-081-4333

Kit Part:Y

MSDS Number: CKSWV === 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 Num:(800)424-9300

Resp. Party Other MSD

S Num.:600308

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: GRACE W R & CO EMERSON & CUMING DEWEY & ALMY CHEM

Address:869 WASHINGTON ST

City:CANTON State:MA

ZIP:02021-2513

Country:US

Phone:617-935-4850

CAGE:04552

Company Name: KAMPI COMPONENTS CO., INC.

Address:210 RT 13

Box:721 City:BRISTOL

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tate:PA ZIP:19007-3517 Country:US Phone:215-736-2000 Contract Num:SP0430-00-M-H369 CAGE:7Z016 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:SP0430-01-M-H935 CAGE:7B953 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:SP0430-01-M-NC53

CAGE:7B953

Company Name: TRIMAN INDUSTRIES INC

Address:420 COM MERCE LN SUITE 8 Box:City:WEST BERLIN

State:NJ ZIP:08091 Country:US

Phone:856-767-7945 /FAX: 856-767-7154

Contract Num:SP0411-01-M-EK17

CAGE:0ZBE8

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

Ingred Name: M-PHENYLENE DIAMINE Minumum % Wt:70. Maxumum % Wt:80. Other REC Limits: NOT PROVIDED ACGIH TLV:0.1 MG/M3

Ingred Name: N-METHYL PYRROLIDONE

Minumum % Wt:20. Maxumum % Wt:30.

Other REC Limits: NOT PROVIDED

LD50 LC50 Mixture: NOT PROVIDED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES: SEVERELY IRRITATING TO EYES.
SKIN CONTACT: CAUSES MODERATE SKIN IRRITATION. PROLONGED OR
REPEATED EXPOSURE TO LIQUID MAY EXERT DEFATTING OR DRYING ACTION ON
SKIN, RESULTING IN DERMATITIS. THIS P RODUCT MAY CAUSE SKIN
SENSITIZATION/ALLERGIC SKIN REACTIONS WHICH MAY BE SEVERE IN
CERTAIN INDIVIDUALS

- . MAY BE ABSORBED THROUGH SKIN. INHALATION: MAY
 CAUSE RESPIRATORY IRRITATION. MAY CAUSE SENSITIZA TION RESPONSES IN
 SUSCEPTIBLE INDIVIDUALS; REACTIONS MAY BE SEVERE IN SOME CASES.
 SYMPTOMS MAY BE DELAYED. INGESTION: HARMFUL IF SWALLOWED.
- Explanation of Carcinogenicity:M-PHENYLENE DIAMINE HAS NOT DEMONSTRATED ANY CARCINOGENIC ACTIVITY.
- Effects of Overexposure:EYES: BLURRED VISION, BURNING SENSATION ,TEARING. SKIN: RASH, ITCHING, HIVES, SWELLING OF THE EXTREMITIES. MAY BE A
- BSORBED THROUGH SKIN. MAY CAUSE A TEMPORARY, ORANGE-BROWN STAINING OF THE SKIN; NO AD VERSE HEALTH EFFECTS ARE KNOWN TO BE RESULT FROM THIS STAINING. INHALATION: RESPIRATORY IRRITATION, NAUSEA, HEADACHES. INHALATION HAZARD AT ROOM TEMPERATURE IS UNLIKELY, DUE TO THE LOW VOLALITY OF TH IS PRODUCT. INGESTION: HARMFUL IF SWALLOWED.
- 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.

First Aid:EYE CONTACT: FLUSH EYES WITH WATER 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN CONTACT: REMOVE AN CONTAMINATED CLOTHING AND FLUSH THE AFFECTED AREA OF THE SKIN THOROUGHLY WITH PLENTY OF WATER. FOLLOW BY WASHING WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. DO NOT RE USE

CONTAMINATED CLOTHING UNTIL PROPERLY CLEANED. INHALATION: REMOVE VICTIM TO FRESH AIR. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET IMMEDIATE MEDICAL ATTENTION. INGESTION: DILUTE BY GIVING PLENTY OF WATER TO DRINK, IF VICTIM IS CONSCIOUS A ND ALERT. GET MEDICAL ATTENTION.

Flash Point Method:PMCC Flash Point:>93.3C, 200.F Lower Limits:N/E Upper Limits:N/E

F

xtinguishing Media:USE CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER FOG.
Fire Fighting Procedures:FIREFIGHTER/RESCUE PERSONNEL SHOULD WEAR
POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS AND FULL
PROTECTIVE RQUIPMENT. COOL EXPOSED CONTAINERS WITH WATER TO PREVEN
PRESSURE BUILDUP. IF LARGE QU ANTITIES OF MATERIAL ARE INVOLVED,
EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

Unusual Fire/Explosion Hazard:DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC. CLOSED CONTAINER

S MAY VIOLENTLY RUPTURE UNDER FIRE CONDITIONS.

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

Spill Release Procedures:STOP SOURCE OF 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. DIS

POSE OF IN ACCORDANCE

WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

Neutralizing Agent: NOT PROVIDED

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

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. EMPLOY EES MUST BE TRAINEDIN SAFE HANDLING OF THIS PRODUCT PRIOR TO USE.

==========	Exposure	Controls/Persona	al Protection	=========
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Respiratory Protection: USE AN APPROPRIATE, PROPERLY FITTED RESPIRATOR IF EXPOSURES EXCEED PEL/TLV VA

LUES. 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 TO DRAW VAPORS, MISTS, OR FUMES AWAY FROM THE WORKER AND PREVENT ROUTINE INHALATION.

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

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

Other Protective Equipment:CHEMICAL-RESISTANT APRON AND ADDITIONAL IMPERVIOUS CLOTHING TO PREVENT SKIN CONTACT, CONTAMINATION OF CLOTHING AND POSSIBLE SKIN ABSORPTION. EMERGENCY EYE WASH AND SAFETY SHOWER MUST BE AVAILABLE.

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 ENTRY DESCRIBES CATALYST 11 I

TEM OF A THREE PART KIT. SEE THIS

SAME NSN, MFN 1 FOR DATA COVERING STYCAST 2651-40 BLACK, MSDS SERIAL # CKVTW/CKSWD AND CATALYST 9, MSDS SERIAL # CKSWH, THE OTHER T WO ITEMS IN KIT.

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

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:70

Corrosion Rate: NOT PROVIDED

======== Stability and React

ivity Data ========

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:PRODUCT IS STABLE UNDER NORMAL HANDLING AND STORAGE CONDITIONS. AVOID STORAGE IN OPEN CONTAINERS, EXPOSURE TO OPEN FLAME, UNCONTROLLED EXPOSURE TO HEAT, INCOMPATIBLE SUBSTANCES.

Hazardous Decomposition Products: CARBON MONOIDE, 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 NON-HAZARDOUS POLYMERIZATION OF EPOXY. ========== Toxicological Information ================= Toxicological Information: CHRONIC HEALTH EFFECTS: STUDIES WITH LAB TEST ANIMALS INDICATE N-METHYL PYRROLIDONE MAY BE EMBRYOTOXIC BY ORAL AND INTERPERIT ONEAL ROUTES. TERATOGENIC 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 INH ALATION, 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. ============== == Ecological Information ========== Ecological:NOT PROVIDED ======= Disposal Considerations ============ Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH CURRENT FEDERAL.

SARA Title III Information:SARA STATUS: THE REPORTALE SUBSTANCES REFERENCED IN SECTION 2 WHICH ARE SUBSTANCES RGULATED 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 N OTIFICATION REQUIREMENTS: M-PHE

NYLENE 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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