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Product ID:CATALYST 9 MSDS Date:06/25/1997 FSC:5970 NIIN:00-081-4333 Status Code:A Kit Part:Y MSDS Number: CKVTY === Responsible Party === Company Name: EMERSON & CUMING SPECIALTY POLYMERS DIV. NATIONAL STARCH Address:55 HAYDEN AVE. City:LEXINGTON State:MA ZIP:02173 Country :US Info Phone Num:617-828-3300; 617-402-9100SAFETY Emergency Phone Num: (800) 424-9300 Resp. Party Other MSDS Num.:600008 Preparer's Name: DAVID HAAS Chemtrec Ind/Phone:(800)424-9300 CAGE:UO039 === Contractor Identification === Company Name: EMERSON & CUMING SPECIALTY POLYMERS DIV. NATIONAL STARCH Address:55 HAYDEN AVE. Box:City:LEXINGTON State:MA ZIP:02173 Country:US Phone:617-828-3300; 617-402-9100SAFETY Contract Num:SPO411-01-M-G585 CAGE:UO039 Company Name: MCKEOWN ROBERT CO. INC. Address:111 CHA MBERS BROOK RD. Box:City:SOMERVILLE State:NJ ZIP:08876 Country:US Phone:908-218-9000 Contract Num:SP0430-00-M-GC18 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-H114 CAGE:7B953

H TLV:N/E

Ingred Name:TRIETHYLENETETRAMINE CAS:112-24-3 RTECS #:YE6650000 Minumum % Wt:20. Maxumum % Wt:30. **OSHA PEL:N/E** ACGIH TLV:N/E Ingred Name: PENTAETHYLENE HEXAMINE CAS:4067-16-7 RTECS #:RZ2680000 = Wt:10. **OSHA PEL:N/E** ACGIH TLV:N/E LD50 LC50 Mixture: NO DATA PROVIDED BY MANUFACTURER Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: EYES-CORROSIVE, MAY CAUSE BURNS; POSSIBLE CORNEA L INJURY, PERMANENT IMPAIRMENT OR BLINDNESS. SKIN-CORROSIVE, MAY CAUSE SEVERE BURNS, BLISTERING; MAY CAUSE SKIN SENSITIVITY/ALLERGIC SKIN REACTIONS; MA YBE HARMFUL IS SKIN ABSORBED. INHALATION-VAPORS MAY CAUSE IRRITATION, NAUSEA, HEADACHES; MAY CAUSE RESPIRATORY SENSITIZATION. INGESTED-HARMFUL IF SWALLOWED; MAY CAUSE BURNS TO MOUTH & GI TRACT. CHRONI C: REPERATED OVEREXPOSURE TO POLYETHYLENE POLYAMINES (INCLUDING ALL THREE LISTED INGREDIENTS) ARE REPORTED TO CAUSE LI **VER & KIDNEY INJURY IN** LABORATORY ANIMALS. Explanation of Carcinogenicity:NO DATA PROVIDED BY MANUFACTURER Effects of Overexposure: EYES-BURNS, BLINDNESS. SKIN-BURNS, BLISTERING. INHALED-IRRITATION, NAUSEA, HEADACHES, TIGHTNESS IN CHEST, ASTHMA-LIKE SYMPTOMS, RESPIRATORY DISTRESS. INGESTED-BURNS TO MOUTH & GI TRACT. Medical Cond Aggravated by Exposure:NO DATA PROVIDED BY MANUFACTURER

First Aid:EYES-IMMEDIATELY

FLUSH WITH WATER FOR AT LEAST 15 MINUTES, HOLD LIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION. SKIN-IMMEDIATELY FLUSH WITH WATER WHILE REMOVING CONTAMINATED CLOTHES & SHOES. FOLLOW BY WAS HING WITH SOAP & WATER. GET IMMEDIATE MEDICAL ATTENTION.DO NOT REUSE CONTAIMINATED CLOTHES UNTIL LAUNDERED. DISCARD CONTAMINATED LEATHER GOODS/SHOES. INHALED-REMOVE VICTIM TO FRESH AIR. PROVIDE OXYGEN IF BREATHING DIFFICULT. GIVE ARTIFICIAL **RESPIRATION IF NOT BREATHING. GET IMMEDIATE ME DICAL ATTENTION.** INGESTED-DO NOT INDUCE VOMITING! IF CONSCIOUS, DILUTE BY DRINKING WATER. GET IMMEDIATE MEDICAL A TTENTION. Flash Point:>93.3C, 200.F Lower Limits:NE **Upper Limits:NE** 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 EXPO SED 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: DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC. CLOSED CONTAINERS MAY VIOLENTLY RUPTURE UNDER FIRE CONDITIONS. Spill Release Procedures: ACTIVATE AVAILABLE VENTILATION EQUIPMENT. WIPE OR ABSORB SPILLED MATERIAL WITH VERMICUL ITE OR SIMILAR MATERIAL. WASH AREA WITH SOAPY WATER. COLLECT ABSORBED MATERIAL & WATER RINSES TO APPROPRIATE CONT AINERS. DISPOSE OF IN ACCORDANCE WITH CURRENT FEDERAL, STATE & LOCAL REGULATIONS. SPILL RESPONSE OPERATIONS MUST BE IAW 29 CFR 1910.120. LARGE SPILLS: PREVENT RUNOFF FROM ENTERING WATERWAYS. Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER

Handling and Storage Precautions:STORE IN A COOL, DR

Y 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 STO RAGE INFORMATION. Other Precautions: BECAUSE USAGE CONDITIONS WILL VARY DEPENDING ON CUSTOMER APPLICATION, SPECIFIC SAFE HANDLING PROCEDURES SHOULD BE DEVELOPED BY A PERSON KNOWLEDGEABLE IN THE INTENDED USAGE CONDITIONS AND EQUIPMENT. EM PLOYEES MUST BE TRAINED IN SAFE HANDLING OF THIS PROD UCT PRIOR TO USE.

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

Respiratory Protection: USE AN APPROPRIATE PROPERLY FITTED RESPIRATOR IF SYMPTOMS OF EXPOSURE APPEAR. THE TYPE OF RESPIRATORY PROTECTION SELECTED (SCBA, AIR PURIFYING ETC.) WILL DEPEND ON THE CONDITIONS OF USE. OBSERVE OSHA R EGULATIONS FOR RESPIRATORY PROTECTION (29 CFR 1910.134).

Ventilation: EFFECTIVE MECHANICAL EXHAUST VENTILATION TO DRAW VAPORS, MISTS, OR FUMES GENERATED DURING PROCESSI

NG AWAY FROM THE WORKER

AND TO PREVENT ROUTINE INHALATION.

Protective Gloves:NITRILE GLOVES.

Eye Protection: FACE SHIELD IN CONJUCTION WITH EITHER CHEMICAL GOGGLES OR SAFETY GLASSES.

Other Protective Equipment: CHEMICAL RESISTANT APRON AND ADDITIONAL IMPERVIOUS CLOTHING TO PREVENT ALL SKIN CONTACT. EYE WASH FACILITIES AND SAFETY SHOWER MUST BE AVAILABLE.

Work Hygienic Practices:NORMAL WORK CLOTHING SHOULD BE WASHED BEFORE RE-USE. WASH HANDS AND FACE THOROUGHLY AFTER HANDLING AN D BEFORE

EATING, DRINKING OR SMOKING.

Supplemental Safety and Health

IT SHOULD BE NOTED THAT ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT MAY NOT BE SUFFICIENT TO PROTECT PERSONS ALREADY SENSITIZED TO THIS MATERIAL. DLA-HMIS NOTE: PRODUCT IS PART OF 3-PART KI T. OTHER HMIS RECORD FOR THIS KIT/NSN ARE: CKVWB & CKVTW.

HCC:B2 Boiling Pt:=337.8C, 640.F Vapor Pres:AIR Spec Gravity:0.99 VOC Pounds/Gallon:4 41 Solubility in Water:SOLUBLE Appearance and Odor:AMBER LIQUID, AMINE ODOR Percent Volatiles by Volume:ND

Stability Indicator/Materials to Avoid:YES INCOMPATIBLE WITH STRONG OXIDZERS, ACIDS, BASES, EPOXIDE. Stability Condition to Avoid: AVOID STORAGE IN OPEN CONTAINERS, EXPOSURE TO OPEN FLAME OR UNCONTROLLED EXPOSURE TO HEAT, UNCONTROLLED MIXING WITH EPOXIES OR EXPOSURE TO INCOMPATIBLE SUBSTANCES .. Hazardous Decomposit ion Products:CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, AMINES AND OTHER ORGANIC SUBSTANCES MAY BE FORMED DURING COMBUSTION. Conditions to Avoid Polymerization: HAZARDOUS POLYMERIZATION WILL NOT OCCUR Toxicological Information: NO DATA PROVIDED BY MANUFACTURER Ecological:NO DATA PROVIDED BY MANUFACTURER ====== Disposal Con Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATION. Transport Information: D.O.T. INFORMATION: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (TETRAETHYLENE PENTAMINE, TRIETHYLENE TETRAMINE), 8, UN2735, PGIII.

SARA Title III Information: THIS PRODUCT DOES NOT CONTAIN ANY SUBSTANCES

REGULATED BY THE SARA SECTION 313 AMENDMENTS TO RCRA. Federal Regulatory Information:TSCA STATUS: ALL COMPONENTS OF THIS PRODUCT ARE LISTED IN THE EPA TOXIC SUBSTANCE CONTROL ACT INVENTORY.

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): 441.5 G/L.

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ith this information by the compiling agencies):

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