View NSN Online: https://aerobasegroup.jp/nsn/5970-00-787-8319

Product ID:CATALYST 9 (SEE SUPPL) MSDS Date:05/22/2000 FSC:5970 NIIN:00-787-8319 Status Code:A Kit Part:Y MSDS Number: CLFDD === Responsible Party === Company Name: EMERSON & CUMING SPECIALTY POLYMERS DIV OF NATIONAL STARCH Address:46 MANNING ROAD City:BILLERIC А State:MA ZIP:01821 Country:US Info Phone Num:781-828-3300 OR 978-436-9781 Emergency Phone Num:202-483-7616 Resp. Party Other MSDS Num.:600008 Preparer's Name: DAVID HAAS Chemtrec Ind/Phone:(800)424-9300 CAGE:TO215 === Contractor Identification === Company Name: EMERSON & CUMING SPECIALTY POLYMERS DIV OF NATIONAL STARCH Address:46 MANNING ROAD Box:City:BILLERICA State:MA ZIP:01821 Country:US Phone:781-828-3300 OR 978-436-9781 CAGE:TO215 Company Name: MCKEOWN ROBERT CO. INC. Address:111 CHAMBERS BR OOK RD. Box:City:SOMERVILLE State:NJ ZIP:08876 Country:US Phone:908-218-9000 Contract Num:SP0450-99-M-Y157 CAGE:7B953 Ingred Name: TETRAETHYLENE PENTAMINE Minumum % Wt:90.

Maxumum % Wt:100.

Ingred Name:TRIETHYLENE TETRAMINE &It; Wt:5.

Ingred Name:PENTAETHYLENE HEXAMINE & lt; Wt:5.

E EYES; MAY CAUSE BURNS AND POSSIBLE CORNEAL INJURY. PERMANENT IMPAIRMENT OF VISION OR BLINDNESS MAY OCCUR. SKIN: CONTAINS MATERIALS CORROSIVE TO THE SKIN; MAY C AUSE SEVERE BURNS AND BLISTERING. THIS PRODUCT MAY CAUSE SKIN SENSITIZATION/ALLERGIC SKIN REACTIONS WHICH MAY BE SEVERE IN CERTAIN INDIVIDUALS; SYMPTOMS INCLUDE RASH, ITCHING, HIVES, SWELLING OF THE E XTREMITIES. MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. INHALATION: VAPORS MAY CAUSE IRRITATION, NAUSEA, AND

HEADACHES. MAY CAUSE RESPIRATORY SENSITIZATION RSPONSES IN SUSCEPTIBLE INDIVIDUALS; REACTI ONS MAY BE SEVERE IN SOME CASES.

Effects of Overexposure:EYE: CORROSIVE TO EYES; MAY CAUSE BURNS & POSSIBLE CORNEAL INJURY. PERMANENT IMPAIRMENT OF VISION OR BLINDNESS MAY OCCUR. SKIN: CONTAINS MATERIALS CORROSIVE TO SKIN; MAY CAUSE SEVERE BURNS AND BLISTE RING. MAY CAUSE SKIN SENSITIZATION/ALLERGIC SKIN REACTIONS WHICHMAY BE SEVERE IN CERTAIN INDIVIDUALS; SYMPTOMS INCLUDE RAS

H, ITCHING, HIVES, SWELLING OF THE EXTREMITIES. MAY BE HARMFUL IF ABSORBED THR OUGH THE SKIN. INHALATION: VAPORS MAY CAUSE IRRITATION, NAUSEA, AND HEADACHES. MAY CAUSE RESPIRATORY SENSITIZATION RESPONSES IN SUSCEPTIBLE INDIVIDUALS; REACTIONS MAY BE SEVERE IN SOME CASES. MAY CAUS E BURNS TO MOUTH & UPPER G/I TRACT.

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

First Aid:EYE: IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MIN WHILE HOLDING EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION. SKIN: IMMEDIATELY FLUSH WITH PLENTY WATER, WHILE REMOVING CONTAMINATED CLO THING/SHOES. FOLLOW BY THOROUGHLY WASHING WITH SOAP & WATER. AVOID SCRUBBING, AS THIS COULD INCREASE SKIN ABSORPTION & WORSEN EFFECT OF CHEMICAL CONTACT. GET IMMEDIATE MEDICAL HELP. CLEAN CLOTHES BEFO RE REUSE. INHALATION: MOVE TO FRESH A

IR. GIVE OXYGEN IF BREATHING IS DIFFICULT. GIVE CPR IF NOT BREATHING. GET MEDICAL HELP NOW. INGESTION: DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE WATER. NEVER GIVE ANYTHING BY MOUTH IF UNCONSCIOUS.

Flash Point:>93.3C, 200.F

Extinguishing Media:USE CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER FOG. Fire Fighting Procedures:FIREFIGHTERS/RESCUE PERSONNEL SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARAT US 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:DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC. CLOSED CONTAIENRS MAY VIOLENTLY RUPTURE UNDER FIRE CONDITIONS

Spill Release Procedures: SMALL SPILLS: ABSORB WITH VERMICULITE. WASH

AREA WITH SOAPY WATER. COLLECT MATERIAL & RINSES IN APPROPRIATE CONTAINERS. LARGE SPILLS: LIMIT ACCESS. SHUT OFF SOURCE IF POSSIBLE WITHOUT INJURY. VENTILAT E AREA. DIKE TO PREVENT GETTING INTO WATERWAYS. COLLECT MATERIAL FOR SALVAGE/DISPOSAL. APPLY ABSORBENT. WASH AREA WITH SOAPY WATER. PREVENT RUNOFF FROM ENTERING WATERWAYS. TRANSFER TO CONTAINERS. Neutralizing Agent:NOT PROVIDED

Handling and Storage P recautions:STORE IN A COOL, DRY LOCATION WITH ADEQUATE VENTILATION. KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE. KEEP AWAY FROM OPEN FLAMES AND HEAT SOURCES. CONSULT THE PRODUCT TECHNICAL BULLETIN FOR DETAILED STORAGE INFORMATION. Other Precautions:NOT PROVIDED

======= 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 EGLATIONS FOR RESPIRATORY PROTECTION (29 CFR 1910.134)

Ventilation:PROVIDE EFFECTIVE MECHANICAL EXHAUST VENTILATION TO DRAW VAPORS, MISTS, OR FUMES GENERATED DURING PROCESSING AWAY FROM THE WORKER AND TO PREVENT ROUTINE INHALAT

Protective Gloves:NITRILE GLOVES

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

Other Protective Equipment: A ROPER CHEMICAL RESISTAND

APRON AND ADDITIONAL IMPERVIOUS CLOTHING TO PREVENT ALL SKIN CONTACT, CONTAMINATION OF CLOTHING AND POSSIBLE ABSORPTION THROUGH THE SKIN. Work Hygienic Practices:NORMAL WORK CLOTHING SHOULD BE WASHED BEFORE RE-USE. WASH HANDS AND FACE THOROUGHLY AFTER HANDLING THIS PRODUCT AND BEFORE EATING, DRINKING OR SMOKING. Supplemental Safety and Health THIS IS A KIT CONSISTING OF CATALYST 9; STYCAST 2651 BLACK. HCC:B2 В oiling Pt:=317.8C, 604.F Vapor Pres: (MMHG@25C)AIR Spec Gravity:(WATER=1)0.99 Solubility in Water:SOLUBLE Appearance and Odor: AMBER LIQUID, AMINE ODOR Stability Indicator/Materials to Avoid:YES INCOMPATIBLE WITH STRONG OXIDIZERS, ACIDS, BASES. UNCONTROLLED MIXING WITH EPOXIDES MAY CAUSE HAZARDOUS EXOTHERMIC POLYMERIZATION, POSSIBLY RESULTING IN EVOLUTION OF SMOKE AND TOXIC FUMES. Stability Condition to Avoid: AVOID STORA GE IN OPEN CONTAINERS, EXPOSURE TO OPEN FLAME OR UNCOLTROLLED EXPOSURE TO HEAT, UNCONTROLLED MIXING WITH EPXIES OR EXPOSURE TO INCOMPATIBLE SUBSTANCES. Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, AMMONIA, AMINES AND OTHER ORGANIC SUBSTANCES MAY BE FORMED DURING COMBUSTION. THE CHEMICAL NATURE AND QUANTITY OF DECOMPOSITION BY PRODUCTS WILL VARY Conditions to Avoid Polymerization: WILL NOT OCCUR; HOWEVER, REVIEW REACTIVITY DATA CONCE RNING CONDITIONS TO AVOID AND INCOMPATIBLE SUBSTANCE Toxicological Information: REPEATED OVEREXPOSURE TO POLYETHYLENE POLYAMINES (INCLUDING DIETHYLENE TRIAMINE, TRIETHYLENE TETRAMINE & TETRAETHYLENE PENTAMINE) ARE REPORTED TO CAUSE LIVER & KIDNEY INJURY IN TESTS ON LABORATORY ANI MALS. Ecological:NOT PROVIDED

====== Disposal Co

nsiderations =================

Waste Disposal Methods:PILL RESPONSE OPERATIONS MUST BE CONDUCTED IAW OSHA 29CFR1910.120 REVIEW ENTIRE MSDS BEFORE PROCEEDING WITH SPILL RESPONSE. DISPOSE OF IN ACCORDANCE WITH CURRENT FEDERAL, STATE, AND LOCAL REGULATIONS.

Transport Information:DOT: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (TETRAETHYLENE PENTAMINE, TRIETHYLENE TETRAMINE), 8, UN2735, PG III

Federal Regulatory Information:ALL COMPONENTS LISTED IN TSCA INVENTORY. State Regulatory Information:VOLATILE ORGANIC COMPOUND CONTENT IAW SOUTHERN CALIFORNIA AIR QUALITY MANAGEMENT DISTRICT RULE 109 (EPA TEST METHOD 24): 441.5 G/L

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