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## EMERSON & CUMING SPECIALTY POLYMERS DIV OF NATIONAL STARCH -- CATALYST 9 -- 5970-00-081-4333

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

Product ID:CATALYST 9 MSDS Date:12/31/1998

FSC:5970

NIIN:00-081-4333 MSDS Number: CJKSJ === Responsible Party ===

Company Name: EMERSON & CUMING SPECIALTY POLYMERS DIV OF NATIONAL STARCH

Address:46 MANNING ROAD

City:BILLERCIA

State:MA ZIP:01821 Country:US

Info Phone Num:9

78-436-9781

Emergency Phone Num:(800)424-9300

Preparer's Name:DAVID HAAS Chemtrec Ind/Phone:(800)424-9300

CAGE:TO215

=== Contractor Identification ===

Company Name: ELLSWORTH ADHESIVE SYSTEMS

Address:N 117 W 18711 FULTON DR

Box:City:GERMANTOWN

State:WI ZIP:53022 Country:US

Phone:800-888-0698

Contract Num:SP0430-99-M-Y485

CAGE:0PYJ1

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 BROOK RD.

Box:City:SOMERVILLE

State:NJ ZIP:08876 Country:US

Phone:908-218-9000

Contract Num:SP0430-00-M-GC18

CAGE:7B953

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

Ingred Name: TETRAETHYLENE PENTAMINE

CAS:112-57-2

Code:F

RTECS #:KH8585000 Minumum % Wt:60. Maxumum % Wt:70.

Ingred Name:TRIETHYLENETETRAMINE

CAS:112-24-3

RTECS #:YE6650000 Minumum % Wt:20. Maxumum % Wt:30.

Ingred Name:PENTAET HYLENEHEXAMINE CAS:4067-16-7 RTECS #:RZ2680000 = Wt:10.

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYES-CORROSIVE, MAY CAUSE BURNS;
POSSIBLE CORNEAL 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 LIVER & KIDNEY INJURY IN LABORATORY ANIMALS.

Explanation of Carcinogenicity: NONE SPECIFIED 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: NONE SPECIFIED BY MANUFACTURER.

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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. FOLLO

W 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 MEDICAL ATTENTION. INGESTED-DO NOT INDUCE VOMITING! IF CONSCIOUS, DILUTE BY DRINKING WATER. GET IMMEDIATE MEDICAL A TTENTION.

 Fire	Fighting	Measures	======

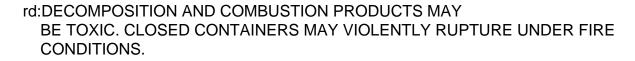
Flash Point:>93.3C, 200.F

Lower Limits:NE Upper Limits:NE

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

Fire Fighting Procedures:FIREFIGHTERS/RESCUE PERSONNEL SHOULD WAR
POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS AND FULL
PROTECTIVE EQUIPMENT. COOL EXPOSED CONTAINERS WITH WATER TO PREVENT
PRESSURE BUILDUP. IF LARGE QU ANTITIES OF MATERIAL ARE INVOLVED,
EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

Unusual Fire/Explosion Haza



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

- Spill Release Procedures:ACTIVATE AVAILABLE VENTILATION EQUIPMENT. WIPE OR ABSORB SPILLED MATERIAL WITH VERMICULITE 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: NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions: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 PRODUCT TECHNICAL BULETIN FOR DETAILED

STOR AGE INFORMATION.

Other Precautions: NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection: USA AN APPROPRIATE PROPERLY FILLED 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 PROCESSING 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 R

E-USE. WASH HANDS AND FACE THOROUGHLY AFTER HANDLING AND 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: HCC IS BASED ON THIS IS PAR T OF A KIT WHICH CARRIES AN HCC OF T4 DUE TO CATALYST 11 WHICH IS SHIPPED AS A 6.1 PG III.
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HCC:T4 Boiling Pt:=337.8C, 640.F Vapor Pres:0.001 Vapor Density:>AIR Spec Gravity:0.99 VOC Pounds/Gallon:441 Solubility in Water:SOLUBLE Appearance and Odor:AMBER LIQUID, AMINE ODOR Percent Volatiles by Volume:ND
========= Stability and Reactivity Data ==========
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 EX POSURE TO HEAT, UNCONTROLLED MIXING WITH EPOXIES OR EXPOSURE TO INCOMPATIBLE SUBSTANCES Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN AMINOS AND OTHER ORGANIC SUBSTANCES MAY BE FORMED DURING COMBUSTION. Conditions to Avoid Polymerization:HAZARDOUS POLYMERIZATION WILL NOT OCCUR
=========== Toxicological Information ===========
Toxicological Information:NONE SPECIFIED BY MANUFACTURER.
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Information ============
Ecological:NONE SPECIFIED BY MANUFACTURER.
======= Disposal Considerations ==========
Waste Disposal Methods:DISPOSE OF IAW FEDERAL, STATE & LOCAL REGULATION.
======== MSDS Transport Information ==========
Transport Information:US DOT INFORMATION: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (TETRAETHYLENE PENTAMINE, TRIETHYLENE TETRAMINE),8, UN2735, PGIII.
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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 DISTRIC RULE 109 (EPA TEST METHOD 24).
===== ======= Other Information ====================================
Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department

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