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

## EMERSON AND CUMING -- CATALYST 9 -- 5970-00-081-4333

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

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

FSC:5970

NIIN:00-081-4333

Kit Part:Y

MSDS Number: CKSWH === 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 MSDS N

um.:600008

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

Stat

e: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-NC53

CAGE:7B953

Company Name:TRIMAN INDUSTRIES INC Address:420 COMMERCE 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

Company Name: TRIMAN INDUSTRIES INC

Address: 420 COMMERCE LN SUITE 8

Box:City:WEST BERLIN

State:NJ ZIP:08091 Country:US

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

Contract Num:SP0430-00-M-H518

CAGE:0ZBE8

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

Ingred Name: TETRAETHYLENE PENTAMINE

Minumum % Wt:60. Maxumum % Wt:70.

Other REC Limits:NOT PROVIDED

Ingred Name:TRIETHYLENE TETRAMINE

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

Other REC Limits: NOT PROVIDED

Ingred Name: PENTAETHYLENE HEXAMINE

= Wt:10.

Other REC Limits:NOT P

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: CORROSIVE; MAY CAUSE BURNS, CORNEAL INJURY, PERMANENT IMPAIRMENT OF VISION, BLINDNESS.. SKIN: CORROSIVE; MAY CAUSE SEVERE BURNS, BLISTERING, SEVERE SKIN SENSITIZATION/ALLERGIC SKIN REACTIONS. HA RMFUL IF ABSORBED THROUGH SKIN.

INHALATION: VAPORS MAY CAUSE IRRITATION, NAUSEA, HEADACHES.
MAY CAUSE RESPIRATORY SENSITIZATION RESPONSES IN SUSCEPTIBLE
INDIVIDUALS; REACTIONS MAY BE SEVERE IN SOME CA SES. SYMPTOMS MAY
BE DELAYED. INGESTION: HARMFUL IF SWALLOWED. MAY CAUSE BURNS TO
MOUTH, UPPER GI TRACT. CHRONIC: REPEATED OVEREXPOSURE TO
POLYETHYLENE POLYAMINES REPORTED TO CAUSE LIVER AND KIDNEY I NJURY
IN TESTS ON LAB ANIMALS.

Explanation of Carcinogenicity:NONE

Effects of Overexposure: EYE CONTACT: B

URNS, CORNEL INJURY. SKIN

CONTACT: RASH, ITCHING, HIVES, SWELLING OF EXTREMITIES.

INHALATION: IRRITATION, NAUSEA, HEADACHE, RESPIRATORY SENSITIZATION RESPONSES. SYMPTOMS MAY INCLUDE TIG HTNESS OF CHEST, ASTHMA-LIKE SYMPTOMS, RESPIRATORY DISTRESS; SYMPTOMS MAY BE DELAYED.

INGESTION: MAY CAUSE BURNS TO MOUTH AND UPPER GI TRACT.

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

======	=======================================	First Aid M
easures		======

First Aid:EYE: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL HELP. SKIN: FLUSH AREA WITH PLENTY OF WATER, WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. FOLLOW BY WASHING WITH SOAP A ND WATER. AVOID SCRUBBING, THIS COULD INCREASE SKIN ABSORPTION AND WORSEN THE EFFECT. GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RE SPIRATION IF NOT BREATHING. GE

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MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE WATER TO DRINK BUT NEVER GIVE ANYTHING BY MOUTH TO A DROWSY, UNCONSCIOUS, OR CONVULSING PERSON, GET MEDICAL A TTENTION IMMEDIATELY.

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: FIREFIGHTER/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 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 CONTAINERS MAY VIOLENTLY RUPTURE UNDER FIRE CONDITIONS.

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

Spill Release Procedures: ACTIVATE AVAILABL

**E EXHAUST VENTILATION** 

EQUIPMENT IN SPILL AREA. SHUT OFF SOURCE OF SPILL. DIKE TO PREVENT RELEASES TO SEWERS, DRAINS, WATERWAYS. COLLECT, WIPE UP/ABSORB SPILLED MATERIAL WITH VERMICUL ITE/OTHER MATERIAL. WASH AREA WITH SOAPY WATER TO REMOVE RESIDUE. COLLECT ABSORBED MATERIAL AND WATER RINSES IN APPROPRIATE CONTAINER FOR DISPOSAL. PREVENT RUNOFF FROM ENTERING SEWER OR WATERWAYS.

Neutralizing Agent: NOT PROVIDED

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

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

A PERSON KNOWLEDGEABLE IN THE INTENDED USAGE CONDITIONS AND EQUIPMENT. DO NOT REUSE CO NTAMINATED CLOTHING UNTIL PROPERLY CLEANED. CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT B E DECONTAMINATED.

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

Respiratory Protection:WEAR AN APPRIPRIATE, 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 OSH A REGULATIONS FOR RESPIRATORY PROTECTION (29 CFR 1910.134). PROTECTIVE EQUIPMENT MAY NOT BE SUFFICIENT TO PROTECT PERSONS ALREADY SENSITIZED TO THIS MATERIAL.

Ventilation:PROVIDE EFFECTIVE MECHANICAL EXHAUST VENTILATION TO DRAW VAPORS, MISTS, FUMES GENERATED DURING PROCESSING AWAY FROM WORKERS AND PREVENT ROUTINE INHALATION.

Protective Gloves: PROTECTIVE NITRILE GLOVES.

Eye Protection: FACE SHIELD IN CONJUNCTION WITH SPLASH-PROOF CHEMICAL GOGGLES OR SAF

**ETY GLASSES** 

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

Work Hygienic Practices:WASH HANDS AND FACE THOROUGHLY AFTER HANDLING THIS PRODUCT AND BEFORE EATING, DRINKING OR SMOKING.

Supplemental Safety and Health

THIS IS A THREE PART KIT, SAME NSN. FOR OTHER TWO ITEMS IN THE KIT, SEE MSDS # CKSWD COVERING STYCAST 2651-40 BLACK, & MSDS SERIAL # CKSWV

FOR CATALYST 11. HCC FOR KIT= B2.

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

HCC:B2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=317.8C, 604.F

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

Vapor Pres:AIR Spec Gravity:0.99 VOC Pounds/Gallon:442

pH:NOT PROVIDED Viscosity:NOT PROVIDED

Evaporation Rate & Dr. Reference: NOT PROVIDED

Solubility in Water:SOLUBLE

Appearance and Odor: AMBER LIQUID, AMINE ODOR.

Percent Volatiles by Volume:N/D

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========= Stability and Reactivity Data =========
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:PRODUCT IS STABLE UNDER NORMAL HANDLING AND STORAGE CONDITIONS. AVOID STORAGE IN OPEN CONTAINERS, EXPOSURE TO OPEN FLAME, UNCO NTROLLED HEAT, UNCONTROLLED MIXING WITH EPOXIES. Hazardous Decomposition Products:CO, CO2, 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 WIDELY.
========= Toxicological Information ==========
Toxicological Information:NOT PROVIDED
========= Ecological Information ===========
Ecological:NOT PROVIDED
====== Disposal Considerations ============
Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH CURRENT FEDERAL, STATE, AND LOCAL REGULATIONS.
======== MSDS Transport Information ==========
Transport Information:POLYAMINE, LIQUID, CORROSIVE, NOS (TETRAETHYLENE PENTAMINE, TRIETHYLENE TETRAMINE); 8; UN2735; PG III.
========= Regulatory Information ===========
SARA Title III Information:SARA STATUS: THIS PRODUCT DOES NOT CONTAIN

rrosion Rate:NOT PROVIDED

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: NOT PROVIDED

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

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