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Product ID:CATALYST 9 MSDS Date:04/16/1996 FSC:8040 NIIN:01-105-5610 MSDS Number: CHVXW === Responsible Party === Company Name: EMERSON CUMING INC. Address:55 HAYDEN AVE City:LEXINGTON State:MA ZIP:02173 Country:US Info Phone Num:617-402-9100/617-861-6600 Emergency Phone Num:800-424-9300(CHEMTREC) Preparer's N ame:DAVID HAAS CAGE:0B562 === Contractor Identification === Company Name: EMERSON & CUMING Address:55 HAYDEN AVE Box:City:LEXINGTON State:MA ZIP:02173 Country:US Phone:617-861-6600 CAGE:0B562

Ingred Name:TETRAETHYLENE PENTAMINE RTECS #:99999992Z Fraction by Wt: 60-70% Other REC Limits:NONE RECOMMENDED

Ingred Name:TRIETHYLENE TETRAMINE Fraction by Wt: 20-30% Other REC Limits:NONE RECOMMENDED

Ingred Name: PENTAETHYLENE HEXAMINE

RTECS #:99999992Z Fraction by Wt: 10% Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:EYE:CONTAINS MATL CORR TO EYE,MAY CAUSE BURNS,POSSIBLE CORNEAL INJURY.PERM IMPAIRMENT OF VISION/BLINDNESS MAY OCCUR.SKIN:CONTAINS MATL CORRO TO SKIN,MAY

CAUSE SEVERE BURNS, BLISTERING. SKIN SENS/ALLERGI C SKIN RX WHICH MAY BE SEVERE IN CERTAIN PERSONS. MAY BE HARMFUL IF ABSORBED THRU SKIN. INHAL: VAP IRRIT, NAU, HEAD(SIGN/SYM)

Effects of Overexposure:HEALTH:MAY CAUSE RESP SENS RESPONSE IN SUSCEPTIBLE INDIVIDUALS.SYMT MAY INCLUDE TIGHTNESS OF CHEST,ASTHMA-LIKE SYMPT,RESP DISTRESS.INGEST:HARMFUL IF SWALLOWED.MAY CAUSE BURNS TO MOUTH & UPPER GASTROIN TESTINAL TRACT.CHRONIC:REP OVEREXPO TO POLYETHYLENE POLYAMINES ARE REPORTED T

O CAUSE LIV/KID INJURY IN TEST LAB ANIMALS.

Medical Cond Aggravated by Exposure:EXPOSURE MAY AGGRAVATE PRE-EXISTING SKIN/EYE &/OR RESPIRATORY DISORDERS.

First Aid:EYE:IMMED FLUSH WELL W/H2O @LEAST 15MINS,OPN EYELIDS.SKIN:IMMED FLUSH W/LOTS OF H2O,REMOVE CONTAM CLOTH/SHOES.THEN WASH W/SOAP/H2O.AVOID SCRUB-INCR SKIN ABSOPRT,WORSEN EFFECT.INHAL:REMOVE TO FRESH AIR .BREATH DIFF GIVE OXY;NOT BREATH GIVE ART RES P.INGEST:DONT INDUCE VOMIT.CONSC/ALERT DIL W/H2O TO DRINK.NEVER GIVE ANYTHING BY MOUTH IF UNCONSC/DROWS/CONVULS.IN ALL CASES GET IMMED MED ATTN.

Flash Point:>200F,>93C Autoignition Temp:Autoignition Temp Text:NP Lower Limits:NE Upper Limits:NE Extinguishing Media:USE CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER FOG. Fire Fighting Procedures:FIREFIGHTERS/RESCUE PERSON SHOULD WEAR POS PRESS SCBA & FULL PROT EQPMT.COOL EXPO CNTNR W/H2O-PREVENTS PRESSURE BUILDUP.LG QUANT INVOLVED EVACUATE AREA,(SUPPLE) Unusual Fire/Explosion Hazard:DECOMPO/COMBUSTIOJN PRODUCTS MAY BE TOXIC.CLOSED CONTAINERS MAY VIOLENTLY RUPTURE UNDER FIRE CONDITIONS.

Spill Release Procedures:RESPONSE OPERATIONS MUST BE IAW 29CFR1910.120.REVIE MSDS BEF RESPONSE.SM-ACTIVATE EXHAU VENTI.QIPEU/ABSORB W/VERMI/SIMILAR MATL.WASH AREA W/SOAPY H2O-REMOVES RESI

DUE.COLLECT ABSORBED MATL/H2O RINSE IN APPRO CNTNR.DISPO IAW CURRENT REGS.LG-(SUPPLEMEN) Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:STORE IN COOL DRY LOCATION W/ADEQUA VENTI.KEEP CNTNR TIGHTLY SEALED WHEN NOT IN USE.KEEP AWAY FROM OPN FLAMES/HEAT SOURCES.

Other Precautions: CONSULT PROD TECHN BULLETIN FOR DETAILED STORAGE INFO.

Respiratory Protection: VENTI MUST BE SUFFI TO PREVENT RESP IRRIT-VAP PRODUCE IRRIT, MAY CAUSE ALLERGIC RESP RX/SENS.USE APPROP PROPERLY FIT RESP IF EXPO SYMPT APPEAR.TYEP DEPEND ON USE CONDITIONS.OBSERVE 29CFR1910.134.ENGIN CNTRL/PPE NOT SUFFI TO PROT SENS PERSONS Ventilation: EFFECTIVE MECH EXHU VENTI-DRAY VAP/MIST/FUME FRM PROCE AWAY

FRM WORKER/PREVENT ROUTINE INHAL.

Protective Gloves:NITRILE GLOVES

Eye Protection: FCSHIELD W/SPALSH PROOF CHEM GOGG/GLAS S

Other Protective Equipment:CHEM RESIST APRON,ADDN IMPERV CLOTH.EMERG EYEWASH FAC,SAF SHOWER.GEN GUIDANCE FOR MIN EXPO.PROCEDURES DVLP BY KNOW PERSN

Work Hygienic Practices:NORMLA WORKCLOTH SHOULD BE WASHED BEF RESUE.WASH HANDS/FACE WELL AFT HNDLG/BEF EAT/DRINK/SMOKE.TRAIN WORKER IN SAF HNDL.

Supplemental Safety and Health

FIREFIGHT:FIGHT FIRE FRM SFE DISTANCE. SPILL:LIMIT ACCESS.SHUT OFF RELEASE SOURCE W/O RISK.ACTIVATE EXHAU VENTI.DIKE,PREVENT RELEASES TO SEWERS/DRAINS

/H2OWAYS.COLLECT FOR SALV/DISO.APPLY ABOSRBENT MAT L TO SOAK RESIDUE.WASH W/SOAPY H2O.PREVENT RUNOFF FRM ENTER H2OWAYS.TRANSF MATL/RINSE TO CNTNR.DISPO IAW ALL REGS.

HCC:N1 Boiling Pt:=317.8C, 604.F Melt/Freeze Pt:M.P/F.P Text:NP Decomp Temp:Decomp Text:NP Vapor Pres:0.001 Vapor Density:>AIR Spec Gravity:0.99 VOC Pounds/Gallon:442 pH:NP Viscosity:NP Evaporation Rate & amp; Reference:NP Solubility in Water:SOLUBLE Appea rance and Odor: AMBER LIQUID, AMINE ODOR Percent Volatiles by Volume:ND Corrosion Rate:NP

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZERS, ACIDS, BASES, EPOXIDES. Stability Condition to Avoid:AVOID STORAGE IN OPN CNTNR,EXPO TO OPN FLAME/UNCONTRL EXPO TO HEAT,UNCONTRL MIX W/EPOXIDES OR EXPO TO INCOMPAT SUBSTANCE Hazardous Decomposition Products:CO,CO2,OXIDES OF NITORGN,AMINES,OTHER ORG SUBST.CHEM NATURE/Q UANT OF DECOMP BYPRODS VARY WIDELY DEPENDS ON COMBUST CONDI

Waste Disposal Methods:NO SARA SEC 313 CHEMS.DISPOSE OF IAW CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

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