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Product ID:CATALYST 9 MSDS Date:07/10/1990 FSC:5970 NIIN:00-081-4333 Kit Part:Y MSDS Number: BWSMT === Responsible Party === Company Name: EMERSON CUMING INC. SUB OF W R GRACE AND CO. Address:77 DRAGON COURT **City:WOBURN** State:MA ZIP:01888 Country:US Info Phone Num:617-828-3300 Emergenc y Phone Num:617-935-4850/617-938-8630 Preparer's Name: DAVID HAAS CAGE:0B562 === Contractor Identification === **Company Name: DEANCO INC** Address: 7933 QUEENAIR DR Box:City:GAITHERSBURG State:MD ZIP:20879-4137 Country:US Phone:301-948-5444 CAGE:9K946 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 CAS:68513-05-3 F raction 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 CAS:4067-16-7 RTECS #:RZ2680000 Fraction by Wt: 10% Other REC Limits:NONE RECOMMENDED

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 &** POSSIBLE CORNEAL INJURY. PERMANENT IMPAIRMENT OF VISION OR BLINDNESS MAY OCCUR. SKIN- CORROSIVE. MAY CAUSE SEVERE BURNS. MAY CAUSE SENSITIZATION/ALLERGIC REACTIONS. HARMFUL IF ABSORBED. INHALATION- VAPORSMAY CAUSE IRRITATION, SENSITIZATION. INGESTION-HARMFUL IF SWALLOWED. Effects of Overexposure: EYES- IMPAIRMENT OF VISION OR BLINDNESS. SKIN-BLISTERING. INHALATION- TIGHTNESS OF THE CHEST, ASTHMA-LIKE SYMPTOMS, RESPIRATORY DISTRESS. INGESTION- MAY C AUSE BURNS TO THE MOUTH AND UPPER GASTROINTES TINAL TRACT. Medical Cond Aggravated by Exposure: EXPOSURE MAY AGGRAVATE PREEXISTING SKIN, EYE AND/OR RESPIRATORY DISORDERS. First Aid:GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE. EYES-IMMEDIATELY FLUSH THOROUGHLY FOR 15 MINUTES. SKIN- IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER, FOLLOWED BY WASHING WITH SOAP & WATER. A VOID SCRUBBING. INHALATION-**REMOVE TO FRESH AIR. GIVE** ARTIFICAL RESPIRATION IF BREATHING HAS STOPPED. INGESTION- DO NOT INDUCE VOMITING; IF CONSCIOUS GIVE WATER FREELY AND GET MEDICAL ATTENTION.

Flash Point:280F,138C

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL FOAM.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. COOL EXPOSED CONTAINERS WITH WTER TO PREVENT P RESSURE BUILDUP. EVACUATE AREA IF NEEDED. Unusual Fire/Explosion Hazard:DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC. CLOSED CONTAINERS MAY VIOLENTLY RUPTURE UNDER FIRE CONDITIONS.

Spill Release Procedures: ACTIVATE AVAILABLE EXHAUST VENTILATION. WIPE UP OR ABSORB SMALL SPILLS WITH VERMICULITE OR OTHER SIMILAR MATERIALS. SHUT OFF SOURCE OF RELEASE IF POSSIBLE AND DIKE AREA FOR LARGE SPILLS. WASH AREA A

FT ER CLEANUP WITH SOAP AND WATER.

 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.
Other Precautions:CONSULT THE PRODUCT TECHNICAL BULLETIN FOR DETAILED STORAGE INFORMATION.

Respiratory Protection: USE AN APPROPRIAT

E, PROPERLY FITTED RESPIRATOR

IF SYMPTOMS OF EXPOSURE APPEAR. THE TYPE OF RESPIRATORY PROTECTION SELECTED WILL DEPEND ON THE CONDITIONS OF USE.

Ventilation: MAINTAIN SUFFICIENT MECHANICAL VENTILATION TO KEEP VAPOR CONCENTRATION BELOW TLV.

Protective Gloves:WEAR APPROPRIATE PROTECTIVE GLOVES.

Eye Protection: CHEMICAL SAFETY GLASSES, SPLASH-PROOF.

Other Protective Equipment: FACE SHIELD MAY BE NEEDED. WEAR A PROPERLY FITTED CHEMICAL-RESISTANT APRON AND ADDITIONAL IMPERVIOUS CLOTHING. Work Hygienic Practices: WASH HANDS THOROUGHLY AFTER HANDLING. Supplemental Safety and Health THIS IS PART OF A THREE PART KIT.

HCC:T4 Boiling Pt:=317.8C, 604.F Vapor Pres:AIR Spec Gravity:0.99 Solubility in Water:SOLUBLE Appearance and Odor:AMBER LIQUID, AMINE ODOR.

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZERS, ACIDS, BASES, EPOXIDES. Stabili ty Condition to Avoid:AVOID STORAGE IN OPEN CONTAINERS, EXPOSURE TO OPEN FLAME OR UNCONTROLLED EXPOSURE TO HEAT, UNCONTROLLED MIXING.

Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE AND OXIDES OF NITROGEN. AMINES AND OTHER ORGANIC SUBSTANCES.

Waste Disposal Methods:DISPOSE OF ALL SPILLED MATERIAL AND WATER RINSES IN ACCORDANCE WITH CURRENT STATE, LOCAL AND FEDERAL REGULATIONS.

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vided with this information by the compiling agencies):

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