Product ID:WAKEFIELD HARDENER A4 MSDS Date:06/12/1990 FSC:8040 NIIN:01-106-0036 Kit Part:Y MSDS Number: BQDPM === Responsible Party === Company Name: EG & G WAKEFIELD ENGINEERING Address:80 AUDUBON RD City:WAKEFIELD State:MA ZIP:01880 Country:US Info Phone Num:617 245 5900 **Emergency Phone Nu** m:617 245 5900 Preparer's Name: DAVID F HAGERTY CAGE:05820 === Contractor Identification === Company Name: EG & G WAKEFIELD ENGINEERING Address:80 AUDUBON RD Box:City:WAKEFIELD State:MA ZIP:01880 Country:US Phone:617 245 5900 CAGE:05820

Ingred Name:4,7,10-TRIOXATRIDECANE-1,13 DIAMINE CAS:4246-51-9 RTECS #:ID6475000 Fraction by Wt: 100% Other REC Limits:NONE SPECIFIED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE: EYE: CORROSIVE, MAY CAUSE BURNS, CORNEAL INJURY. IMPAIRMENT OF VISION/BLINDNESS. SKIN: CORROSIVE, MAY CAUSE SEVERE BURNS AND BLISTERING. INHALATION: VAPORS MAY CAUSE IRRITATION, NAUSEA AND HEAD ACHES. INGESTION: HARMFUL.

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

ISORDERS. RESPIRATORY SENSITIZATION RESPONSES IN SUSCEPTIBLE INDIVIDUALS.

First Aid:EYE: FLUSH EYES THOROUGHLY WITH WATER 15 MINS. SKIN: FLUSH SKIN WITH WATER. CONTAMINATED LEATHER CANNOT BE DECONTAMINATED AND SHOULD BE DESTROYED. INHALATION: MOVE TO FRESH AIR. PROVIDE OXYGEN IF BREA THING IS DIFFICULT. ARTIFICIAL RESPIRATION IF NOT BREATHING. INGESTION: DO NOT INDUCE VOMITING.

======= Fire

Flash Point:280F,138C

Extinguishing Media:USE CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER FOG Fire Fighting Procedures:PERSONNEL SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS. COOL CONTAINERS WITH WATER. IF LARGE QUANTITIES, EVACUATE AREA.

Unusual Fire/Explosion Hazard:DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC. CLOSED CONTAINERS MAY VIOLENTLY RUPTURE UNDER FIRE CONDITIONS.

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

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Spill Release Procedures: IN ACCORDANCE WITH OSHA 29 CFR 1910.120. SMALL: EXHAUST VENTILATION. ABSORB MATERIAL WITH VERMICULITE. LARGE: LIMIT ACCESS. EXHAUST VENTILATION. DIKE AREA, WASH AREA WITH SOAPY WATER. TRANSFER ABSORBE D MATERIAL AND WATER RINSES TO WASTE CONTAINERS.

Handling and Storage Precautions: STORE IN A COOL, DRY LOCATION WITH ADEQUATE VENTILATION. KEEP CONTAINERS TIGHTLY CLOSED.

KEEP FROM

OPEN FLAMES AND HEAT SOURCES.

Ventilation: EXHAUST VENTILATION AWAY FROM THE WORKER AND PREVENT ROUTINE INHALATION. Protective Gloves: APPROPRIATE PROTECTIVE GLOVES Eye Protection: CHEM SFTY GLASSES/GOGGLES/FACE SHIELD Other Protective Equipment: CHEM RESISITANT APRON-ADDITIONAL IMPERVIOUS CLOTHING. EMERGENCY EYE WASH FACILITIES & SAFETY SHOWER SHOULD BE AVAILABLE Work Hygienic Practices: WASH HANDS AND FA CE THOROUGHLY AFTER HANDLING THIS PRODUCT AND BEFORE EATING, DRINKING OR SMOKING. Supplemental Safety and Health

KEY1:C2.

HCC:B3 Boiling Pt:B.P. Text:356F,180C Vapor Pres:< 1 @ 25C Spec Gravity:(WATER=1)> 1.0 Solubility in Water:SOLUBLE Appearance and Odor:AMBER LIQUID, AMINE ODOR

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZERS, ACIDS, BASES

Stability Condition to Avoid:AVOID STORAGE IN OPEN CONTAINERS, EXPOSURE TO OPEN FLAME, HEAT OR TO INCOMPATIBLE SUBSTANCES. Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH CURRENT FEDERAL, STATE AND LOCAL REGULATIONS.

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