

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

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 Num:617 245 5900

Preparer's Name:DAVID F HAGERTY

CAGE:05820

=== Co

ntractor Identification ===

Company Name:EG & G WAKEFIELD ENGINEERING

Address:80 AUDUBON RD

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Phone:617 245 5900

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

Ingred Name:4,7,10-TRIOXATRIDECANE-1,13 DIAMINE

CAS:4246-51-9

RTECS #:ID6475000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:N

O

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 DISORDERS. RESPIRATORY SENSITIZATION RESPONSES IN SUSCEPTIBLE INDIVIDUALS.

===== First Aid Measures =====

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 Fighting Measures =====

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 =====

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 =====

Handling and Storage Precautions:STORE IN A COOL, DRY LOCATION WITH ADEQUATE VENTILATION. KEEP CONTAINERS TIGHTLY CLOSED. KEEP FROM OPEN FLAMES AND HEAT SOURCES.

===== Expo

sure Controls/Personal Protection =====

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 FACE THOROUGHLY AFTER HANDLING THIS PRODUCT AND BEFORE EATING, DRINKING OR SMOKING.

Supplemental Safety and Health

KEY1:C2.

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

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 and Reactivity Data =====

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

===== Disposal Considerations =====

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

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