

EG & G WAKEFIELD ENGINEERING -- A-4 HARDENER (WAKEFIELD) -- 8040-00-083-1811

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

Product ID:A-4 HARDENER (WAKEFIELD)

MSDS Date:11/01/1988

FSC:8040

NIIN:00-083-1811

MSDS Number: BHHRZ

=== Responsible Party ===

Company Name:EG & G WAKEFIELD ENGINEERING

Address:60 AUDUBON ROAD

City:WAKEFIELD

State:MA

ZIP:01880-1203

Country:US

Info Phone Num:617-245-5900

Emergency Phone Num:617-245-5900

Preparer's Name:DAVID F. HEGARTY

CAGE:05820

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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

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

Ingred Name:DI(3-AMINOPROPYL) ETHER DIETHYLENE GLYCOL

CAS:4246-51-9

RTECS #:ID6475000

Fraction by Wt: >99%

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 4.3G/KG

Routes of Entry: Inhalation:YES

Skin: YES Ingestion: NO  
Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO  
Explanation of Carcinogenicity: NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.  
Effects of Overexposure: SEVERE EYE, SKIN & RESPIRATORY TRACT IRRITATION OR BURNS, CHEST DISCOMFORT, SYMPTOMS OF BRONCHITIS.  
Medical Cond Aggravated by Exposure: NO DATA IS AVAILABLE FOR THIS PRODUCT MIXTURE.

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

First Aid: INHALATION: REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. DILUTE WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

===== Fire Fighting Measures =====

Flash Point  
Method: CC  
Flash Point: 280F, 138C  
Lower Limits: NOT EST.  
Upper Limits: NOT EST.  
Extinguishing Media: USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG.  
Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.  
Unusual Fire/Explosion Hazard: FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS TOXIC VAPORS.

===== Accidental Release Measure

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Spill Release Procedures: SMALL SPILL: WIPE/SOAK UP WITH VERMICULITE OR INERT ABSORBENT. PUT IN DISPOSAL CONTAINER. SCRUB AREA WITH SOAP & WATER. LARGE SPILL: VENTILATE AREA. DIKE TO RETAIN RUN OFF. SHOVEL OR PUMP TO DRUM OR S ALVAGE CONTAINERS. SCRUB AREA WITH SOAPY WATER.  
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions: STORE IN A COOL, DRY, WELL VENTILATED

AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE & SOURCES OF HEAT.  
Other Precautions:DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. FOR INDUSTRIAL USE ONLY.

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

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION  
E  
XPOSURES BELOW PEL(TLV), USE NIOSH/MSHA APPROVED ORGANIC VAPOR  
CARTRIDGE AND DUST/MIST PRE-FILTER RESPIRATORS AS PER CURRENT 29  
CFR 1910.134, INSTRUCTIONS/ WARNINGS AND NIOSH-RESPIRATOR  
SELECTION.  
Ventilation:MECHANICAL (GENERAL) ROOM VENTILATION IS REQUIRED. LOCAL  
EXHAUST MAY BE REQUIRED IF WORK AREA NOT VENTED.  
Protective Gloves:NEOPRENE, NITRILE, PVC RUBBER GLOVES  
Eye Protection:CHEMICAL SPLASH GOGGLES.  
Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.  
INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.  
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR  
FOOTWEAR.  
Supplemental Safety and Health  
AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO  
NOT BREATHE VAPORS OR MISTS.

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

HCC:B3  
Boiling Pt:B.P. Text:>480F,>249C  
Melt/Freeze Pt:M.P/F.P Text:NOT EST.  
Vapor Pres:1  
Spec Gravity:1.0  
pH:9.4  
Solubility in Water:COMPLETE  
Appearance and Odor:CLEAR, COLORLESS LIQUID - ODOR NOT SPECIFIED BY  
MANUFACTURER.  
Percent Volatiles by Volume:NONE

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENTS, PEROXIDES, EPOXIDES, ACIDS.  
Stability Condition to Avoid:STORAGE IN OPEN CONTAINERS, HIGH  
TEMPERATURES, SPARKS, AND OPEN FLAMES  
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,

## OXIDES OF NITROGEN.

### ===== Disposal Considerations =====

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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