

## **WAKEFIELD B-4 HARDENER**

### **MSDS Number**

BHCVX

### **National Stock Number**

8040-01-118-1765

### **Product Name**

WAKEFIELD B-4 HARDENER

### **Manufacturer**

EG AND G WAKEFIELD ENGINEERING

### **Product Identification**

Product ID:WAKEFIELD B-4 HARDENER

MSDS Date:11/01/1988

FSC:8040

NIIN:01-118-1765

Kit Part:Y

MSDS Number: BHCVX

### **Responsible Party**

EG AND G WAKEFIELD ENGINEERING

60-AUDUBON ROAD

WAKEFIELD , MA 01880-1203

US

Emergency Phone: 617-245-5900

Info Phone: 617-245-5900

Preparer: DAVID F.HEGARTY

Cage: DO812

### **Contractor**

EG AND G WAKEFIELD ENGINEERING

WAKEFIELD, MA 01880

US

617-245-5900

Cage: DO812

### **Ingredients**

TRIETHYLENE TETRAMINE

CAS: 112-24-3

RTECS: YE6650000

Fraction By Weight: >99.0%

OTHER COMPONENTS (NOT SPECIFIED BY MGF)

### **Hazards**

LD50 LC50 Mixture:ORAL RAT:1.41 G/KG

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: CORROSIVE TO ALL BODY

TISSUES;IRRITATION/BURNS/REDNESS OF EYES,SKIN,RESPIRATORY AND

G.I.TRACTS;EYE INJURY OR DAMKAGE

POSSIBLE.CHRONIC:SENSITISATION,LIVER OR KIDNEY DAMAGE.  
Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.  
Effects of Overexposure:SEE HEALTH HAZARDS DATA.  
Medical Cond Aggravated by Exposure:ANY RESPIRATORY OR SKIN CONDITION.

## First Aid

First Aid:INHALATION: NO PROBLEM AT NORMAL TEMPERATURE. EYE: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING AND CLEAN BEFORE REUSE.

## Fire Fighting

Flash Point Method:PMCC  
Flash Point:208F,98C  
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:TOXIC VAPORS UPON EXTREME HEAT OR OPEN FLAMES.

## Accidental Release

Spill Release Procedures:USE PROPER PERSONAL PROTECTION;WIPE UP OR ABSORB ON SUITABLE INERT MATERIAL AND RECOVER FOR PROPER DISPOSAL.AVOID ALL PERSONAL CONTACT.

## Handling

Handling and Storage Precautions:KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. KEEP CONTAINER CLOSED WHEN NOT IN USE. DO NOT STORE ABOVE 120 DEG F. EMPTY CONTAINERS MAY CONTAIN PRODUCT  
Other Precautions:ALL LABEL WARNINGS MUST BE OBSERVED UNTIL THE CONTAINER HAS BEEN CLEANED OR RECONDITIONED.

## Exposure Controls

Respiratory Protection:WEAR APPROPRIATE, PROPERLY FITTED RESPIRATOR (NIOSH/MSHA APPROVED) DURING AND AFTER APPLICATION IF ABOVE PEL/TLV OR SCBA IN AN ENCLOSED AREA.  
Ventilation:LOCAL/GENERAL TO MAINTAIN PEL/TLV.  
Protective Gloves:BUTYL, PVA OR VITON RUBBER GLOVES  
Eye Protection:SPRAY PAINT GOGGLES AND FACE SHIELD.  
Other Protective Equipment:PROTECTIVE CLOTHING,EYE WASH FACILITIES.  
Work Hygienic Practices:WASH THOROUGHLY AFTER USE AND BEFORE EATING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.  
Supplemental Safety and Health  
AVOID CONTACT WITH EYES AND SKIN.DO NOT BREATHE VAPORS.PERMANENT EYE DAMAGE OR BLINDNESS POSSIBLE.

## Chemical Properties

HCC:B2  
Vapor Pres:Vapor Density:>1.0  
Spec Gravity:0.99  
Solubility in Water:COMPLETELY MISCIBLE  
Appearance and Odor:AMBER LIQUID

## Stability

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENTS,PEROXIDES AND HALOGENATED ORGANIC COMPOUNDS.  
Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES  
Hazardous Decomposition Products:CARBON DIOXIDE & CARBON DIOXIDE,AMMONIA AND OXIDES OF NITROGEN.

## Disposal

Waste Disposal Methods:DISPOSE IN CHEMICAL DISPOSAL AREA OR IN A MANNER THAT COMPLIES WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

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