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Product Identification  
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Product ID:ZE-3 ZYGLO EMULSIFIER

MSDS Date:06/22/1989

FSC:6850

NIIN:01-266-4553

Kit Part:Y

MSDS Number: BGRYZ

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION

Address:7300 W LAWRENCE AVE

City:CHICAGO

State:IL

ZIP:60656-3504

Country:US

Info Phone Num:708-867-8000

Emergency Phone Num:708-867-8000

Preparer's Name:BRUCE C. GRAHAM

CAGE:37676

=== Contrac

tor Identification ===

Company Name:ILLINOIS TOOL WORKS INC MAGNAFLUX DIV

Address:3624 WEST LAKE AVENUE

Box:City:GLENVIEW

State:IL

ZIP:60025

Country:US

Phone:847-657-5300/

CAGE:37676

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Composition/Information on Ingredients  
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Ingred Name:MINERAL OIL (EXPOSURE REGULATED AS 'OIL MIST')

CAS:8012-95-1

RTECS #:PY8030000

Fraction by Wt: 50.0%

OSHA PEL:5 MG/M3

ACGIH TLV:5 MG/M3/10 STEL;9192

Ingred Name:"NOT HAZARDOUS" INGREDIENTS

Fraction by Wt: 50%

Other REC Limits:NONE ES

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

Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE:MAY IRRITATE EYES.SEE  
OVEREXPOSURE SYMPTOMS.  
Effects of Overexposure:INHALATION:NOT LISTED BY  
MANUFACTURER.HOWEVER,FINE SPRAY/MIST MAY CAUSE IRRITATION TO  
BREATHING PASSAGES; EYES:LIQUID/MIST CAUSES IRRITATION;  
SKIN:PROLONGED OR REPEATED CONTACT CAUSES IRRI  
TATION BY DI SSOLVING  
SKIN OILS; INGESTION:NOT NOTEDBY MANUFACTURER.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY THE MANUFACTURER.

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

First Aid:INHALATION:REMOVE TO FRESH AIR; SKIN:REMOVE CONTAMINATED  
CLOTHES.WASH OFF PROMPTLY WITH SOAP AND WATER.USE SOOTHING  
LOTION.GET MEDICAL HELP IF IRRITATION PERSISTS; EYES:IMMEDIATELY  
RINSE EYES WITH COP IOUS AMOUNT OF WATER.GET MEDICAL ASSISTANCE IF  
IRRITATION  
PERSISTS; INGESTION:NOT STATED BY MANUFACTURER.GET  
MEDICAL ATTENTION IF INGESTED.

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

Flash Point Method:PMCC  
Flash Point:325F/163C  
Extinguishing Media:CARBON DIOXIDE,FOAM  
Fire Fighting Procedures:KEEP CONTAINERS COOL WITH WATER SPRAY.  
Unusual Fire/Explosion Hazard:WHEN INVOLVE IN COMBUSTION,MAY EMIT TOXIC  
GASES AT OR ABOVE DECOMPOSITION TEMPERATURE.

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

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pill Release Procedures:REMOVE IGNITION SOURCES.SM QTY:WIPE UP OR MOP  
UP BUT DO NOT BREATHE VAPORS.PLACE RAGS IN CLOSED DRUMS; LG  
QTY:WEAR PERSONAL SAFETY EQUIPMENTS.DIKE AREA FAR AHEAD.ABSORB  
LIQUID WITH COMMERCIAL ABSORBEN T.TRANSFER WASTE MATL IN SALVAGE  
TANKS.

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

Handling and Storage Precautions:STORE AWAY FROM HEAT SOURCES IN WELL  
VENTILATED AREA.AVOID AGAINST PHYSICAL DAMAGE TO CONTAINERS.KEEP  
CONTAI

NERS TIGHTLY CLOSED.

Other Precautions:DO NOT BREATHE VAPORS.DO NOT SMOKE WHILE USING.DO NOT HEAT ABOVE 130F(54C).AVOID FREQUENT OR PROLONGED SKIN CONTACT.

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

Respiratory Protection:USE NIOSH APPROVED RESPIRATOR FOR CONFINED AREAS.

Ventilation:GENERAL ROOM VENTILATION TO KEEP BELOW TLV LIMITS.

Protective Gloves:USE NITRILE RUBBER GLOVES IF NEEDED

Eye Protection:FULL GOGGLES/SAFETY GLASSES W/SIDESHIELD

Other Protective Equ

ipment:NOT KNOWN

Work Hygienic Practices:WASH OFF PROMPTLY WITH WATER.AVOID SKIN CONTACT.

Supplemental Safety and Health

NSN FOR KIT/SET OF MIL-I-25135D,TYPE II,METHOD B MATL;SET CONSISTS OF SKL-LO PENETRANT AND ZE-3 OR ZE-4B EMULSIFIER.THIS ENTRY FOR ZE-3; QPL-25135-15 ALSO QUALIFIED ZE-3 & ZE-4B EMULSIFIERS FOR VARIOU S KITS TO GO WITH DIFFERENT PENETRANTS UNDER TYPE I,METHODS A,B,C,D & LEVELS 1,2,3,4; SEE OTHER PNI FOR OTHER PRODUCTS.

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

HCC:N1

Boiling Pt:B.P. Text:>450F/>232C

Vapor Pres:0.3 @ 100F

Vapor Density:>1.0

Spec Gravity:0.75

pH:8.0

Solubility in Water:NEGLIGIBLE

Appearance and Odor:VISCOUS PINK LIQUID

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

Stability Indicator/Materials to Avoid:YES

NONE STATED BY MANUFACTURER.

Stability Condition to Avoid:HEAT,HIGH TEMPERATURES

Hazardous Decomposition Products:EMITS OXIDES OF CARBON IF BURNING.

===== Dispo

sal Considerations =====

Waste Disposal Methods:INCINERATE OR DISPOSE OF AS EPA HAZARDOUS WASTE  
D001 (IGNITABLE WASTE),IN ACCORDANCE WITH ALL APPLICABLE  
FEDERAL,STATE,LOCAL REGULATIONS.

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