

MAGNAFLUX CORPORATION -- ZL-30B ZYGLO PENETRANT -- 6850-01-266-4551

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

Product ID:ZL-30B ZYGLO PENETRANT
MSDS Date:11/19/1986
FSC:6850
NIIN:01-266-4551
MSDS Number: BGRYP
=== Responsible Party ===
Company Name:MAGNAFLUX CORPORATION
Address:7300 W.LAWRENCE AVENUE
City:CHICAGO
State:IL
ZIP:60656
Country:US
Info Phone Num:312-867-8000
Emergency Phone Num:312-867-8000
Preparer's Name:BRUCE C. GRAHAM
CAGE:37676

=== Contractor 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

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

Ingred Name:DISTILATES(PETROLEUM),CATALYTIC REFORMER FRACTIONATER
RESIDUE,LOW BOILING
CAS:68477-31-6
Fraction by Wt: 30.0%

Ingred Name:KEROSENE
CAS:8008-20-6
RTECS #:OA5500000
Fraction by

Wt: 05.0%
ACGIH TLV:100 MG/CUM

Ingred Name:LUBRICATING OIL(PETROLEUM),CLAY TREATED(MINERAL OIL-CLAY TREATED)

CAS:64742-50-3

Fraction by Wt: 10.0%

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

Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO

Health Hazards Acute and Chronic:IRRITATES EYES.

Effects of Overexposure:INHALATION:CAUSES DIZINESS,DROWSINESS,NAUSEA;
SKIN:LIQUID IRRITATES BY DISSOLVING SKIN OIL; EYES:VAPORS/LIQUID
CAUSES IRRITATION.

Medical Cond

Aggravated by Exposure:NOT KNOWN.

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

First Aid:INHALATION:REMOVE TO FRESH AIR.IF BREATHING IS DIFFICULT,GIVE
OXYGEN; SKIN:REMOVE CONTAMINATED CLOTHES.WASH OFF WITH FLOWING
WATER.USE SOOTHING LOTION.IF IRRITATION PERSISTS,GET MEDICAL ATTN;
EYES:IMM EDIATELY RINSE/FLUSH WITH COPIOUS AMOUNT OF RUNNING
WATER,AND GET MEDICAL ATTENTION.

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

Flash Point

Method:PMCC

Flash Point:>200F/>93C

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.

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

Spill 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 EQU

IPMENTS.DIKE AREA FAR AHEAD.ABSORB
LIQUID WITH COMMERCIAL ABSORBE NT.TRANSFER WASTE MATL IN SALVAGE
TANKS.

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

Handling and Storage Precautions:STORE AWAY FROM HEAT SOURCES IN WELL
VENTILATED AREA.AVOID AGAINST PHYSICAL DAMAGE TO CONTAINERS.KEEP
CONTAINERS 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:WEAR A RESPIRATOR WITH CHEMICAL CARTRIDGE. IN
CONFINED AREAS,WEAR A FULL MASK WITH SEPARATE AIR SUPPLY.

Ventilation:GENERAL VENTILATION TO KEEP BELOW 350PPM LIMIT.

Protective Gloves:NITRILE RUBBER GLOVES.

Eye Protection:FULL GOGGLES.

Other Protective Equipment:EITHER USE IN A SPRAY BOOTH OR NEXT TO AN
EXHAUST VENT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.LAUNDER
CONTAMINATED CLOTHES
BEFORE RE-USE.

Supplemental Safety and Health

ITEM IS A 2 PARTS KIT.UNDER MIL-I-25135,TYPE I,METHOD D,LEVEL 4,THE
KIT/NSN MAY CONSIST OF ZL-30B OR ZL-37 PENETRANT AND AN
EMULSIFIER(QPL-25135-15 SPECIFIED EITHER ZR-10A OR ZR-10B
EMULSIFIER BE USED WITH THE ABOVE PENETRANT);KEY1:N1;THIS ENTRY
DESCRIBES ZL-30B PENETRANT;SEE PNI C & D,THIS NSN,FOR EMULSIFIER
DATA.

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

HCC:N1

Boiling Pt:B.P. Text:410F/210C

Vapor Pre

s:1.0

Spec Gravity:0.96

Solubility in Water:NEGLIGIBLE

Appearance and Odor:GREEN LIQUID.

Percent Volatiles by Volume:5%

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

Stability Indicator/Materials to Avoid:YES
NONE KNOWN.

Stability Condition to Avoid:HEAT,HIGH TEMPERATURES.

Hazardous Decomposition Products:EMITS OXIDES OF CARBON AND NITROGEN ON
COMBUSTION.

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

Waste Disposal Methods:INCINERATE OR DISPOSE

OF AS EPA HAZARDOUS WASTE
D001 (IGNITABLE WASTE), IN ACCORDANCE WITH APPLICABLE
FEDERAL, STATE, LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.