

MAGNAFLUX CORPORATION -- ZP-9E ZYGLO DEVELOPER (OLD FORMULATION) --
6850-01-265-7234

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

Product ID:ZP-9E ZYGLO DEVELOPER (OLD FORMULATION)

MSDS Date:11/19/1985

FSC:6850

NIIN:01-265-7234

MSDS Number: BGRXS

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION

Address:7300 W.LAWRENCE AVENUE

City:CHICAGO

State:IL

ZIP:60656

Country:US

Info Phone Num:708-867-8000

Emergency Phone Num:708-867-8000

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:METHYL CHLOROFORM (1,1,1-TRICHLOROETHANE) (SARA III)

CAS:71-55-6

RTECS #:KJ2975000

Fraction by Wt: 90.0%

OSHA PEL:350 PPM/450 STEL

ACGIH TLV:350 PP

M/450STEL;9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS
Ozone Depleting Chemical:1

Ingred Name:CARBON DIOXIDE
CAS:124-38-9
RTECS #:FF6400000
Fraction by Wt: 05.0%
OSHA PEL:5000 PPM
ACGIH TLV:5000PPM/30000STEL;93

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===== Hazards Identification =====
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Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:IRRITATES EYES BY SOLVENT ACTION.
Effects of Overexposure:INHALATION:SPRAY MIST MAY IRRITATE TO BREATHING
PASSAGES; EYES:LIQU
ID CONTACT MAY CAUSE IRRITATION; SKIN:SOLVENT IN
THE PRODUCT MAY IRRITATE SKIN; INGESTION:NOT NOTED BY MANUFACTURER.
Medical Cond Aggravated by Exposure:NOT STATED BY MANUFACTURER.

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===== First Aid Measures =====
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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 AMOUNTOF RUNNING
WATER,AND GET MEDICAL ATTENTION.

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===== Fire Fighting Measures =====
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Flash Point:NONE
Lower Limits:10%
Upper Limits:15%
Extinguishing Media:CARBON DIOXIDE,FOAM
Fire Fighting Procedures:KEEP CONTAINERS COOL WITH WATER SPRAY.
Unusual Fire/Explosion Hazard:AEROSOL CANS CAN BURST AT TEMPERATURES
OVER 130F.VAPORS PARTIALLY DECOMPOSE TO TOXIC GASES WHEN EXPOSED TO
FLAME,ARCS,RED HOT SURFACES.

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

Spill Release Procedures:LESS THAN ONE QUART:WIPE UP BUT DO NOT BREATHE VAPORS;ONE QUART OR MORE:WEAR ALL PERSONAL SAFETY EQUIPMENT TO AVOID VAPOR/LIQ CONTACT OR BREATHING.EVACUATE UNPROTECTED PERSONS.ELIMINATE IGN SOURCES.DI KE LIQ.PLACE IN COVERED DRUMS.SEND TO RECLAIMER.

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

Handling and Storage Precautions:STORE AWAY FROM HEAT SOURCES TO MINIMIZE THE DANGER FROM EXPOSURE TO FIRES.STORE IN DRY,COOL,VENTILATED AREA.

Other Precautions:DO NOT USE AROUND FLAMES/RED HOT SURFACES.DO NOT HEAT ABOVE 130F.AVOID BREATHING VAPORS.AVOID FREQUENT/PROLONGED EXPOSURE TO SKIN.

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

Respiratory Protection:WEAR RESPIRATOR WITH CHEMICAL CARTRIDGE.IN CONFINED AREAS,WEAR A FULL MASK WITH SEPARATE AIR SUPPLY.

Ventilation:GENERAL VENTILATION TO KEEP BELOW 350PPM OF TLV LIMIT.

Protective Gloves:NITRILE RUBBER GLOVES.

Eye Protection:FULL GOGGLES

Other Protective Equipment:USE IN SPRAY BOOTH OR NEXT TO AN EXHAUST VENT TO CARRY VAPORS AWAY FROM OCCUPIED AREAS.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING MATERIAL.LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

ITEM IS A ONE PART PRODUCT; SUPPLIER MAY SUPPLY EITHER SKD-LT OR ZP-9E DEVELOPER UNDER THIS NSN. THIS PNIND:B IS REPLACED BY A NEW FORMULATION SHOWN AS PNIND:C.

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

HCC:V2

Boiling Pt:B.P. Text:N/R(AEROSOL

Spec Gravity:1.3 (OF LIQUID)

Evaporation Rate & Reference:0.7 (ETHER=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:THIN,WHITE LIQUID BEFORE FILLING IN AEROSOL CANS.

Percent Volatiles by Volume:94.0

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

Stability Indicator/Materials to Avoid:YES

ALKALI METALS

Stability Condition to Avoid:HEAT/HIGH TEMPERATURES.

Hazardous Decomposition Prod

ucts:PHOSGENE,HYDROCHLORIC ACID GAS,&
OXIDES OF CARBON.

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

Waste Disposal Methods:DISPOSE OF AS EPA HAZARDOUS WASTE #F002;MAY BE SENT TO SOLVENT RECLAIMER.INSURE THAT AEROSOL CANS ARE EMPTY AND DEPRESSURIZED BEFORE DISCARDING,UNLESS A WASTE TREATMENT FACILITY IS APPROVED TO ACCEPT THEM AS IS.COMPLY WITH FED,ST,& LOCAL REGS.

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