

MAGNAFLUX CORPORATION -- ZP-9E,ZYGLO DEVELOPER (POST 87-SEE SUPPL) --
6850-00-782-2740

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

Product ID:ZP-9E,ZYGLO DEVELOPER (POST 87-SEE SUPPL)

MSDS Date:11/19/1985

FSC:6850

NIIN:00-782-2740

Kit Part:Y

MSDS Number: BFPPG

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION

Address:7300 W.LAWRENCE AVENUE

City:CHICAGO

State:IL

ZIP:60656-3504

Country:US

Info Ph

one 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: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 PPM/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 =====

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:IRRITATES EYES BY SOLVENT ACTION.
Explanation of Carcinogenicity:1,1,1-TRICHLOROETHANE IS CURRENTLY UNDER

TEST TO DETERMINE THE POSSIBLE CARCINOGENICITY.
Effects of Overexposure:INHALATION:SPRAY MIST MAY IRRITATE TO BREATHING
PASSAGES; EYES:LIQUID 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 =====

First Aid:INHALATION:REMOVE TO FRESH AIR.IF BREATHING IS DIFFICULT,GIVE
OXYGEN; SKIN:REMOVE CON
TAMINATED 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 =====

Flash Point:NONE
Extinguishing Media:CARBON DIOXIDE,FOAM
Fire Fighting Procedures:KEEP CONTAINERS COOL WITH WATER SPRAY.
Unusual Fire/Explosion Hazard:AEROSOL CANS CAN BURST IF HEATED ABOVE
130F(54.4C).

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===== Accidental 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 AFTR HANDLING MATERIAL.LAUNDER CONTAMINATED CLOTHES BEFORE REUSE OF:DEVELOPER ZP-9E

Supplemental Safety and Health

NSN WAS GROUP VII OF MIL-I-25135C & HAD 3 PARTS(SEE PNI A THRU D FOR OLD PARTS);UNDER REV "D" OF SPEC,NSN BECAME TYPE I,METH C,LVL 3 & STILL HAS 3 PARTS

;I/A/W QPL-25135-15,PARTS ARE:DEVELOPR(ZP-9E NOT ZP-9F),CLEANER(SKC-NF/ZC-7B),& PENETRANT(ZL-22D OR ZL-27A);KEY1:J7;REF:DGSC-SLM CASE HISTORY #88281H;THIS IS ZP-9E DEVL

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

HCC:V2

Spec Gravity:1.3 (OF LIQUID)

Evaporation Rate & Reference:0.7 (ETHER=1)

Solubility in Water:PARTIAL

Appearance and Odor:CLOUDY,COLORLESS LIQUID BEFORE FILLING IN AEROSOL CANS

Percent Volatiles by Volume:90.0

===== Stab

ility and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

ALKALI METALS

Stability Condition to Avoid: HEAT/HIGH TEMPERATURES

Hazardous Decomposition Products: PHOSGENE, HYDROCHLORIC ACID GAS &
OXIDES OF CARBON

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

Waste Disposal Methods: DISPOSE OF AS EPA HAZARDOUS WASTE NO: 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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