

MAGNAFLUX CORPORATION -- ZA-43 KIT, ZP-9F ZYGLO DEVELOPER (POST 1/93) --
6850-00-703-7406

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

Product ID:ZA-43 KIT, ZP-9F ZYGLO DEVELOPER (POST 1/93)

MSDS Date:05/02/1996

FSC:6850

NIIN:00-703-7406

Kit Part:Y

MSDS Number: BRGXH

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION

Address:3624 WEST LAKE AVENUE

City:GLENVIEW

State:IL

ZIP:60025

Country:US

Info P

hone Num:847-657-5300

Emergency Phone Num:800-424-9300 CHEMTREC

Preparer's Name:CHERI A. ZELEZNIK

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:ISOPROPYL ALCOHOL (SARA 313)

CAS:67-63-0

RTECS #:NT8050000

Fraction by Wt: 40-70%

Other REC Limits:NONE RECOMMENDE

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OSHA PEL:400 PPM
ACGIH TLV:400 PPM/500STEL;9596

Ingred Name:ACETONE (SARA 313) (CERCLA)
CAS:67-64-1
RTECS #:AL3150000
Fraction by Wt: 10-30%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1000 PPM
ACGIH TLV:750PPM/1000STEL;9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:PENTAERYTHRITOL
CAS:115-77-5
RTECS #:RZ2490000
Fraction by Wt: 10-30%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9596

Ingred Name:CARBON DIOXIDE
CAS:124-38-9
RTECS #:FF6400000
Fracti
on by Wt: 7%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5000 PPM
ACGIH TLV:5000PPM/30000STEL;96

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: INHALATION OF VAPOR/MIST MAY
CAUSE CENTRAL NERVOUS SYTEM DEPRESSION. CONTACT WITH SKIN AND EYES
MAY CAUSE IRRITATION. NO HEALTH
EFFECTS NOTED FOR INGESTION.
CHRONIC: PROLONGED OR REPEATED EXPOS URE MAY CAUSE DRY SKIN OR SKIN
IRRITATION.
Effects of Overexposure:INHALATION:DIZZINESS, DROWSINESS, NAUSEA.
SKIN:REDNESS, DISCOMFORT, DRYNESS. EYES: REDNESS, TEARING,
DISCOMFORT. INGESTED: NO EFFECTS NOTED.
Medical Cond Aggravated by Exposure:NONE

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

First Aid:INHALATION:REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE
MOUTH-TO-MOUTH RESUSCITATION

. IF BREATHING IS DIFFICULT, GIVE OXYGEN, SKIN:WASH OFF WITH FLOWING WATER OR SHOWER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. USE SOOTHING LOTION. EYES: FLUSH WITH WATER WHILE HOLDING LIDS APART. INGESTION:DO NOT INDUCE VOMITING. CONTACT PHYSICIAN IMMEDIATELY.

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

Flash Point Method:PMCC
Flash Point:2F,-17C
Lower Limits:2
Upper Limits:15
Extinguishing Media:CARBON DIOXIDE, FOAM, WATER
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL FIRE EXPOSED CONTAINERS WITH WATER.
Unusual Fire/Explosion Hazard:AEROSOL CANS MAY BURST AT TEMPERATURES OVER 130F. VAPORS PARTIALLY DECOMPOSE TO TOXIC GASES WHEN EXPOSED TO FLAME, ARCS, OR RED HOT SURFACES.

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

Spill Release Procedures:ELIMINATE ALL SOURCES OF IGNITION. MOP UP OR SWEEP UP WITH ABSORBENT. PLACE IN A CONTAINER FOR LATER DISPOSAL.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:DO NOT USE AROUND FLAMES, ARCS, OR RED HOT SURFACES. DO NOT HEAT CANS ABOVE 130F. STORE AWAY FROM HEAT SOURCES.
Other Precautions:DO NOT BREATHE VAPORS.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR EMERGENCY OCCURS; USE NIOSH/MSHA APPROVED RESPIRATOR OR SUPPLIED AIR RESPIRATOR OR SCBA, AS REQUIRED. USE IN ACCORDANCE WITH 29 CFR 1910.134.
Ventilation:USE ADEQUATE MECHANICAL VENTILATION.
Protective Gloves:NITRILE RUBBER GLOVES.
Eye Protection:SAFETY GLASSES
Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER. EYE WASH STATION & SAFETY SHOWER.
Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.
Supplemental Safety and Health

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KEY1:F1. ITEM IS 4 PARTS KIT WHICH ARE AS FOLLOWS: PENETRANT, ZL-27A (REPLACES ZL-22D) - 1 CAN; DEVELOPER, ZP-9F - 1 CAN; DEVELOPER, ZP-4B - 2 CANS; CLEANER/REMOVER, SKC-S - 4 CANS. THIS ENTRY DESCRIBES DEVELOPER ZP-9F.

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

HCC:V3

Boiling Pt:B.P. Text:135F,57C

Vapor Pres:3103 MM HG

Vapor Density:3

Spec Gravity:0.86

pH:7

Evaporation Rate & Reference:0.4 (ETHER=1)

Solubility in Water:COMPLETE

Appearance and Odor

:WHITE LIQUID BEFORE FILLING TO AEROSOL CANS;

ALCOHOL ODOR.

Percent Volatiles by Volume:85

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

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:PARTIALLY DECOMPOSES IN FLAME, ARCS, NEAR RED HOT SURFACES.

Hazardous Decomposition Products:SOOT, CARBON MONOXIDE AND CARBON DIOXIDE

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

Waste Disposal Methods:DISPOSE OF AS EPA HAZAR

DOUS WASTE #F003 AND

D001. MAY BE SENT TO SOLVENT RECLAIMER. ENSURE THAT AEROSOL CANS ARE EMPTY AND DEPRESSURIZED BEFORE DISCARDING, UNLESS A WASTE TREATMENT FACILITY IS APPROVED TO ACCEPT THEM AS IS.

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