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MAGNAFLUX CORPORATION -- ZA-43 KIT, ZP-9E ZYGLO DEVELOPER (POST 1/89 6850-00-703-7406

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

Product ID:ZA-43 KIT, ZP-9E ZYGLO DEVELOPER (POST 1/89

MSDS Date:01/06/1989

FSC:6850

NIIN:00-703-7406

MSDS Number: BJNWZ === Responsible Party ===

Company Name: MAGNAFLUX CORPORATION

Address:7300 W LAWRENCE AVE

City:CHICAGO

State:IL

ZIP:60656-3504

Country:US

Info Phone Num:70

8-867-8000

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-TRICHLOROEHANE) (SARA III)

CAS:71-55-6

RTECS #:KJ2975000 Fraction by Wt: 65%

Other REC Limits: NONE SPECIFIED

0

SHA 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: CHLORODIFLUOROMETHANE

CAS:75-45-6

RTECS #:PA6390000 Fraction by Wt: 25%

Other REC Limits: NONE SPECIFIED

OSHA PEL:1000 PPM

ACGIH TLV:1000PPM; 9192 Ozone Depleting Chemical:2

Ingred Name:METHYLAL (DIMETHOXYMETHANE)

CAS:109-87-5

RTECS #:PA8750000 Fraction by Wt: @2%

Other REC Limits: NONE SPECIFIED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9192

Ingred Name:TERT-BUTY L ALCOHOL (SARA III)

CAS:75-65-0

RTECS #:EO1925000 Fraction by Wt: 1%

Other REC Limits: NONE SPECIFIED

OSHA PEL:100 PPM

ACGIH TLV:100PPM 9394

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:SEE SIGNS AND SYMPTOMS.

Effects of Overexposure:INHALATION:DIZZINESS, DROWSINESS, NAUSEA,

UNCONSCIOUSNESS AT HIGH EXPOSURE. SKIN: IRRITATES BY

DISSOLVING SKIN

OILS. NOT ABSORBED THROUGH SKIN IN SIGNIFICANT AMOUNTS.

EYES:IRRITATING DUE TO STRONG SOLV ENT ACTION. INGESTION:LOW SINGLE DOSE TOXICITY IN TEST ANIMALS.

Medical Cond Aggravated by Exposure: NONE

First Aid:INHALATION:REMOVE TO FRESH AIR. IF NOT BREATHING, CALL EMERGENCY VEHICLE IMMEDIATELY. GIVE MOUTH-TO-MOUTH RESUSCITATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN, SKIN:WASH OFF WITH FLOWIN



WATER OR SHO WER. 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:NONE Lower Limits:10 Upper Limits:15

Extinguishing Media: NONE

Fire Fighting Procedures: NONE SPECIFIED BY MANUFACTURER.

Unusual Fire/Explosion Hazard:AEROSOL CANS MAY BURST AT TEMPERATURES OVE

R 130F. VAPORS PARTIALLY DECOMPOSE TO TOXIC GASES WHEN EXPOSED TO FLAME, ARCS, OR RED HOT SURFACES.

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

Spill Release Procedures:LESS THAN 1 QUART-WIPE UP AND FOLLOW
GUIDELINES IN "HANDLING/STORAGE PRECAUTIONS". 1 QUART OR
MORE-EVACUATE AREA. ENSURE THAT CLEAN UP CREW WEARS ALL PERSONAL
SAFETY WEAR AS PRESENTED IN "PROTECTIVE E QUIPMENT SECCTION".
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 BREATH VAPORS. EXPOSURES ABOVE THE TLV (350 PPM) CAN RESULT IN CLUMSINESS AND POOR JUDGEMENT.

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

Respiratory Protection: IN POORLY VENTILATED AREAS, USE A RESPIRATOR WITH CHEMICAL CARTRIDGE.

Vent

ilation:GOOD VENTILATION. Protective Gloves:NITRILE RUBBER GLOVES. Eye Protection:FULL GOGGLES IF APPLICATION WARRANTS. Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER. Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health ITEM IS 4 PARTS KIT WHICH ARE AS FOLLOWS: PENETRANT, ZL-27A (REPLACES ZL-22D) - 1 CAN; DEVELOPER, ZP-9E - 1 CAN; DEVELOPER, ZP-4B - 2 CANS; CLEANER/REMOVER, SKC-NF/ZC-7C - 4 CANS. THIS ENTRY DESCRIBES DEVELOPER ZP-9E; KEY 1:J7
========= Physical/Chemical Properties =========
HCC:V3 Boiling Pt:B.P. Text:162F,72C Vapor Pres:230 MMHG Vapor Density:4 Spec Gravity:1.3 pH:7 Evaporation Rate & Description R
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES POWDERED ZINC AND POWDER ED ALUMINUM. Stability Condition to Avoid:PARTIALLY DECOMPOSES IN FLAME, ARCS, NEAR RED HOT SURFACES. Hazardous Decomposition Products:PHOSGENE, HYDROCHLORIC ACID. ===================================
Waste Disposal Methods:DISPOSE OF AS EPA HAZARDOUS WASTE #F002. MAY BE SENT TO SOLVENT RECLAIMER. ENSURE THAT AEROSOL CANS ARE EMPTY AND DEPRESSURIZED BEFORE DISCARDING, UNLESS A WASTE TREATMENT FACILITY

IS APPROVED TO ACCE PT THEM AS IS.

Disclaime

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