

MAGNAFLUX -- ZYGLO DRY POWDER DEVELOPER ZP-4B (SEE SUPPL) -- 6850-00-703-7406

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

Product ID:ZYGLO DRY POWDER DEVELOPER ZP-4B (SEE SUPPL)

MSDS Date:10/26/2001

FSC:6850

NIIN:00-703-7406

Status Code:A

Kit Part:Y

MSDS Number: CLRJW

=== Responsible Party ===

Company Name:MAGNAFLUX

Address:3624 WEST LAKE AVENUE

City:GLENVIEW

State:IL

ZIP:60025

Country:US

Info Phone Num:8

47-657-5300

Emergency Phone Num:847-657-5300

Preparer's Name:TAMIE SIMMONS,R&D MANAGER

Chemtec Ind/Phone:(800)424-9300

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/

Contract Num:SP0450-02-M-M080

CAGE:37676

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

Ingred Name:2,2-BIS HYDROXYMETHYL)-1,3-PROPANEDIOL

CAS:115-77-5

RTECS #:RZ

2490000

Minumum % Wt:40.

Maxumum % Wt:70.

Other REC Limits:NOT PROVIDED.

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

Ingred Name:HEXAMETHYLDISILAZANE. SILICA REACTION PRODUCT

CAS:68909-20-6

Minumum % Wt:3.

Maxumum % Wt:7.

Other REC Limits:NOT PROVIDED.

OSHA PEL:5 MG/M3

ACGIH TLV:10 MG/M3

Ingred Name:ALUMINUM OXIDE

CAS:1344-28-1

RTECS #:BD1200000

Minumum % Wt:3.

Maxumum % Wt:7.

Other REC Limits:NOT PROVIDED.

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

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

LD50 LC50 Mixture:NOT PROVIDED.

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:POTENTIAL HEALTH EFFECTS: SKIN  
CONTACT: NONE. EYES: GRITTY MATERIAL MAY SCRATCH EYEBALL.  
INHALATION: MAY PLUG BREATHING PASSAGES. INGESTION: NOT  
SIGNIFICANT.

Explanation of Carcinogenicity:CONTAINS NO KNOWN OR SUSPECTED  
CARCINOGENS LISTED WITH OSHA, IARC, NTP OR ACGIG.

Effects of Overexposure:EYES: GRITTY MATERIAL MAY SCRATCH EYEBALL.  
INHALATION

: MAY PLUG BREATHING PASSAGES.

Medical Cond Aggravated by Exposure:NONE

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

First Aid:SKIN CONTACT: NONE. EYES: RINSE CAREFULLY UNDER UPPER AND  
LOWER EYELIDS USING PLENTY OF WATER. INHALATION: REMOVE TO FRESH  
AIR. INGESTION: NONE. NOTE: IN ALL SEVERE CASES, CONTACT PHYSICIAN  
IMMEDIATELY. LOCAL TELEPHONE OPERATORS CAN FURNISH NUMBER OF  
REGIONAL POISON CONTROL CENTER.

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

=====

Flash Point:NONE  
Autoignition Temp:Autoignition Temp Text:NONE  
Lower Limits:NONE  
Upper Limits:NONE  
Extinguishing Media:NONE  
Fire Fighting Procedures:NONE  
Unusual Fire/Explosion Hazard:FLOATING ZP-4B DUST CAN BE IGNITED BY  
HIGH ENERGY ARC (350 JOULES OR WATT-SECONDS) OR TEMPERATURES HIGHER  
THAN 383F (195C).

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

Spill Release Procedures:SWEEP UP.  
Neutralizing Agent:NOT RELEVANT.

=====

= Handling and Storage =====

Handling and Storage Precautions:KEEP DRY.  
Other Precautions:AVOID BREATHING DUST.

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

Respiratory Protection:RESPIRATOR WITH FILTER IF USED IN ENCLOSED,  
UNVENTILATED SPACE.  
Ventilation:NOT PROVIDED.  
Protective Gloves:NOT PROVIDED.  
Eye Protection:NOT PROVIDED.  
Other Protective Equipment:NOT PROVIDED.  
Work Hygienic Practices:NOT PROVIDED.  
Supplemental Safety and Health  
THIS IS A K  
IT. THE OTHER MSDS SERIAL NUMBERS: CLRKJ,CKTRP,CLRKK

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

HCC:V3  
NRC/State Lic Num:NOT RELEVANT.  
Boiling Pt:B.P. Text:NONE  
Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED.  
Decomp Temp:Decomp Text:NOT PROVIDED.  
Vapor Pres:NONE  
Spec Gravity:0.2  
pH:NEUTRAL  
Viscosity:NOT APPLICABLE.  
Evaporation Rate & Reference:NONE  
Solubility in Water:4%  
Appearance and Odor:FLUFFY WHITE DUSTY POWDER - ODORLESS  
Percent Volatiles by Volume:NONE  
Corrosion

Rate:NOT PROVIDED.

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

Stability Indicator/Materials to Avoid:YES

ACIDS

Stability Condition to Avoid:NOT PROVIDED.

Hazardous Decomposition Products:IF HEATED TO COMBUSTION TEMPERATURE,  
SOOT, SMOKE, AND OXIDES OF CARBON.

===== Toxicological Information =====

Toxicological Information:TLV: 5 MG/M3 FOR RESPIRABLE DUST.

===== Ecological Information =====

Ecological

:NO DATA IS AVAILABLE ON ZP-4B.

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

Waste Disposal Methods:DISPOSE OF AS ORDINARY WASTE.

===== MSDS Transport Information =====

Transport Information:U.S.DOT:49 CFR 172.101 HAZARDOUS MATERIALS TABLE  
BULK PROPER SHIPPING NAME:NONE, NOT RESTRICTED HAZARD CLASS OR  
DIVISION:NONE IDENTIFICATION NO.:NONE PACKING GROUP:NONE

===== Regulatory Information =====

SARA Title III Information:SARA TILTEL III, SECTION 313: ALUMINUM  
OXIDE. CERCLA: NOT REPORTABLE.

Federal Regulatory Information:TSCA: ALL INGREDIENTS ARE LISTED IN TSCA  
INVENTORY.

State Regulatory Information:CALIFORNIA PROPOSITION 65: CONTAINS  
NOTHING ON THIS LIST.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department  
of Defe

nse. 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.