

MAGNAFLUX CORPORATION -- ZP-9F DEVELOPER -- 6850-01-264-8680

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

Product ID:ZP-9F DEVELOPER

MSDS Date:07/21/1988

FSC:6850

NIIN:01-264-8680

MSDS Number: BGRVT

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION

Address:7300 W.LAWRENCE AVENUE

City:CHICAGO

State:IL

ZIP:60656-3504

Country:US

Info Phone Num:312-867-8000

Emergency Phone Num:312-867-8000

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:ACETONE (SARA III)

CAS:67-64-1

RTECS #:AL3150000

Fraction by Wt: 60.0%

OSHA PEL:1000PPM

ACGIH TLV:750PPM/1000STEL;9293

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:ISOPROPYL ALCOHOL (SARA III)

CAS:67-63-0

RTECS

#:NT8050000  
Fraction by Wt: 25.0%  
OSHA PEL:400 PPM/500 STEL  
ACGIH TLV:400 PPM/500STEL;9192

Ingred Name:PENTAERYTHRITOL  
CAS:115-77-5  
RTECS #:RZ2490000  
Fraction by Wt: 15.0%  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3; 9293

Ingred Name:CONTAINS NO OTHER INGREDIENT SUSPECTED OF BEING  
HAZARDOUS,PER MANUFACTURER MSDS.  
RTECS #:9999999ZZ

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Health Hazards Acute and Chronic:  
ACUTE: CAUSES SKIN/EYE IRRITATION. IF  
INHALED, WILL CAUSE DIZZINESS, DROWSINESS, OR NAUSEA.  
Effects of Overexposure:INHALATION:CAUSES DIZZINESS,DROWSINESS,NAUSEA;  
SKIN:LIQUID IRRITATES BY DISSOLVING SKIN OIL; EYES:VAPORS/LIQUID  
CAUSES IRRITATION.  
Medical Cond Aggravated by Exposure:NOT KNOWN

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

First Aid:INHALATION:REMOVE TO FRESH AIR.IF BREATHING IS DIFFICULT,GIVE  
OXYGEN; SKIN:REMOVE CONTAMINATED CLOTHES.WASH OF  
F 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.

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

Flash Point Method:PMCC  
Flash Point:2F (-16.7C)  
Extinguishing Media:WATER, CARBON DIOXIDE, FOAM  
Fire Fighting Procedures:KEEP CONTAINERS COOL WITH WATER SPRAY.  
Unusual Fire/Explosion Hazard:WHEN INVOLVE IN COMBUSTION,DECOMPOSES TO  
GIVE TO

XIC GASES.

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

Spill Release Procedures:REMOVE IGNITION SOURCES.SMALL SPILL:WIPE UP OR MOP UP BUT DO NOT BREATHE VAPORS.PLACE RAGS IN CLOSED DRUMS; LARGE SPILL: WEAR PERSONAL SAFETY EQUIPMENTS.DIKE AREA FAR AHEAD.ABSORB LIQUID WITH COMMERCIAL ABSORBENT.TRANSFER WASTE MATERIAL IN SALVAGE TANKS.

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

Handling and Storage Precautions:STORE AWAY FROM HEAT SOURCES IN WELL

VENTILATED AREA.AVOID AGAINST PHYSICAL DAMAGE TO CONTAINERS.KEEP CONTAINERS TIGHTLY CLOSED.

Other Precautions:DO NOT BREATHE VAPORS.DO NOT SMOKE WHILE USING.DO NOT HEAT ABOVE 130F(54C).AVOID FREQUENT OR PROLONGED SKIN CONTACT.

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

Respiratory Protection:WEAR A RESPIRATOR WITH ABSORBENT CARTRIDGE IN POORLY VENTILATED AREAS.IN CONFINED,UNVENTILATED SPACES,WEAR FULL MASK WITH AIR SUPPLY.

Ventilation:

GENERAL VENTILATION TO KEEP BELOW TLV LIMITS.

Protective Gloves:NITRILE RUBBER GLOVES

Eye Protection:CHEMICAL SPLASH/FULL GOGGLES

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.LAUNDER CONTAMINATED CLOTHES BEFORE RE-USE.

Supplemental Safety and Health

ITEM IS A ONE PART PRODUCT.SEVERAL OTHER PRODUCTS SUCH AS:SKD-HT,SKD-LT,SKD-NF/ZP-9B,SKD-S,ZP-5A,& ZP-9E DEVELOPERS ARE COVERD BY QPL25135-15,UNDER FORM D,TYPES I AND II OF MIL-I-25135D;EACH TYPE UNDER DIFFERENT NSN;THIS NSN( ESTABLISHED IN 1987) IS FOR TYPE II,FORM D ITEMS;SEE OTHER PNI FOR OTHER TYPE I/II,FORM D PRODUCTS.

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

HCC:F2

Boiling Pt:B.P. Text:135F(57.3C)

Vapor Pres:380MM@100F

Vapor Density:>1.0

Spec Gravity:0.86

Evaporation Rate & Reference:0.5 (ETHER=1)

Solubility in Water:APPRECIABLE

Appearance and Odor:HAZY WHITE LIQUID

Percent Volatiles by Volume:83.0%

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

Stab

ility Indicator/Materials to Avoid:YES

ACIDS,(CORROSIVE MATERIAL)

Stability Condition to Avoid:HIGH TEMPERATURE/HEAT

Hazardous Decomposition Products:ON BURNING, EMITS OXIDES OF CARBON

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

Waste Disposal Methods:INCINERATE OR DISPOSE OF AS EPA HAZARDOUS WASTE  
D001 (IGNITABLE WASTE),IN ACCORDANCE WITH ALL APPLICABLE  
FEDERAL,STATE,LOCAL REGULATIONS.

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