

MAGNAFLUX CORPORATION DIV ILLINOIS TOOL WORKS INC -- ZYGLO EMULSIFIER ZE-4B --
6850-01-268-6712

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

Product ID:ZYGLO EMULSIFIER ZE-4B

MSDS Date:05/03/1996

FSC:6850

NIIN:01-268-6712

MSDS Number: CDKQT

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION DIV ILLINOIS TOOL WORKS INC

Address:7300 W LAWRENCE AVE

City:CHICAGO (NOW GLENVIEW, ILL)

State:IL

ZIP:60025

Country:US

Info Phone Num:847-657-5300 FAX: 847-657-5388

Emergency Phone Num:847-657-5300(CHEMTREC 800-424-9300)

Preparer's Name:CHERYL 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:MINERAL OIL,HYDROTREATED (SEVERE), HEAVY NAPHTHENIC
DISTILL

ATE

CAS:64742-52-5

RTECS #:PY8035001

Fraction by Wt: 60-100%

Other REC Limits:NONE RECOMMENDED

Ingred Name:ALCOHOLS, (C11-C16) SECONDARY, ETHOXYLATED OR SECONDARY
ETHOXYLATED FATTY ALCOHOLS

CAS:68131-40-8

RTECS #:WZ5200000

Fraction by Wt: 1-30%

Other REC Limits:NONE RECOMMENDED

Ingred Name:ALPHA TERPINEOL OR 3,CYCLOHEXANE-1-METHANOL, 4-TRIMETHYL

CAS:98-55-5

RTECS #:WZ6700000

Fraction by Wt: 10-30%

Other REC Limits:NONE RECOMMENDED

Ingred Name:ALCOHOLS (C12-C18), ETHOXYLATED, PROPOXYLATED

OR

ALKOXYLATED FATTY ALCOHOL

CAS:69227-21-0

Fraction by Wt: 6-10%

Other REC Limits:NONE RECOMMENDED

Ingred Name:NONYLPHENOL POLYETHOXATE

CAS:9016-45-9

RTECS #:MD0900000

Fraction by Wt: 3-7%

Other REC Limits:NONE RECOMMENDED

Ingred Name:N-(2-HYDROXYPROPYL)-9-OCTADECAMIDE,

CAS:111-05-7

Fraction by Wt: 1-5%

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:NO Sk

in:NO Ingestion:NO

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

Health Hazards Acute and Chronic:SKIN CONTACT CAN IRRITATE BY REMOVING
NATURAL SKIN OILS ON PROLONGED OR REPEATED EXPOSURE. EYE CONTACT
MAY CAUSE IRRITATION. INHALATION IS NOT A SIGNIFIGANT HEALTH HAZARD
AT ROOM TEMPERATURES. INGESTI ON IS NOT A SIGNIFIGANT HEALTH HAZARD
IN SMALL AMOUNTS.

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%
OR GREATER IS LISTED AS A CARCINOGEN OR SUSPE
CTED CARCINOGEN PER
MANUFACTURER.

Effects of Overexposure:SKIN-IRRITATION. EYES-IRRITATION.

Medical Cond Aggravated by Exposure:NONE.

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

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN-WASH WITH
SOAP AND WATER. USE SOOTHING LOTION. EYE-RINSE CAREFULLY UNDER
UPPER & LOWER EYELIDS USING PLENTY OF WATER. INHALED: REMOVE TO
FRESH AIR IF DI ZZY OR NAUSEATED. INGESTED: DO NOT INDUCE VOMITING!
IN SEVERE CA

SES (MORE THAN SMALL MOUTHFUL), CALL DOCTOR OR POISON CONTROL CENTER IMMEDIATELY.

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

Flash Point Method:PMCC

Flash Point:>200F,>93C

Lower Limits:1

Upper Limits:6

Extinguishing Media:CARBON DIOXIDE,FOAM.KEEP CONTAINERS COOL WITH WATER SPRAY.DO NOT SPRAY WATER DIRECTLY ON PRODUCT;IT WILL FLOAT & SPREAD.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:AEROSOL CANS MAY RUPTURE AND RELEASE FLAMMABLE LIQUIDS AND/OR GASES IF EXPOSED TO HEAT ABOVE 130F (54C).

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

Spill Release Procedures:MOP OR SWEEP UP WITH ABSORBENT.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE AWAY FROM HEAT SOURCE. AVOID EYE

CONTACT. AVOID REPEATED OR PROLONGED SKIN CONTACT.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:NONE NORMALLY REQUIRED.

Ventilation:NONE NORMALLY REQUIRED.

Protective Gloves:NITRILE.

Eye Protection:SAFETY GLASSES.

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER. DLA-HMIS: EYE WASH STATION & SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFO

RE EATING,
DRINKING, OR SMOKING. LAUNDRER CONTAMINATED CLOTHES BEFORE REUSE.
Supplemental Safety and Health
MSDS PRESENTED BY CAGE 37676 FOR CONTRACT NUMBER SP0450-97-MM891.

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

HCC:N1
Boiling Pt:B.P. Text:455F,235C
Vapor Pres:0.1
Vapor Density:>1
Spec Gravity:0.92
pH:7
Evaporation Rate & Reference:NEGLIGIBLE
Solubility in Water:NEGLIGIBLE
Appearance and Odor:PINK, VISCOUS LIQUID; MILD PINE ODOR.
Percent Volatiles by Volume:
e:0

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

Stability Indicator/Materials to Avoid:YES
NONE.
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:SOOT, OXIDES OF CARBON IF HEATED TO
COMBUSTION TEMPERATURES.

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

Waste Disposal Methods:AS A NON-HAZARDOUS WASTE, INCINERATE OR SEND TO
WASTE HANDLER WHO CAN BLEND SECONDARY FUELS.

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