

FMC CORP -- REOLUBE(R) MP 280B -- 9150-01-113-2046

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

Product ID:REOLUBE(R) MP 280B

MSDS Date:10/01/1998

FSC:9150

NIIN:01-113-2046

Status Code:A

MSDS Number: CJJVK

=== Responsible Party ===

Company Name:FMC CORP

Address:1735 MARKET ST., ADDITIVE DIV

City:PHILADELPHIA

State:PA

ZIP:19103

Country:US

Info Phone Num:800-468-3853

Emergency Phone Num:304-755-6300

Chemtec

Ind/Phone:(800)424-9300

CAGE:0TYC8

=== Contractor Identification ===

Company Name:FMC CORP

Address:1735 MARKET ST., ADDITIVE DIV

Box:City:PHILADELPHIA

State:PA

ZIP:19103

Country:US

Phone:800-468-3853

CAGE:0TYC8

Company Name:FMC CORP CHEMICAL PRODUCTS GROUP

Address:2000 MARKET ST.

Box:City:PHILADELPHIA

State:PA

ZIP:19103-3230

Country:US

Phone:215-200-6000

CAGE:93090

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

Ingred Name:TERT-BUTYL PHENYL PHENYL PHOSPHATE

CAS:68937-40-

6
Minimum % Wt:60.
Maximum % Wt:100.
Other REC Limits:NONE RECOMMENDED

Ingred Name:TRIPHENYL PHOSPHATE
CAS:115-86-6
RTECS #:TC8400000
Minimum % Wt:7.
Maximum % Wt:13.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:3 MG/M3
ACGIH TLV:3 MG/M3; 9394

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===== Hazards Identification =====
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LD50 LC50 Mixture:LD50 >5000 MG/KG ORAL-RAT (SIMILAR PROD)
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TESTING INDICATES THAT THIS PRODUCT IS PRACTICALLY NON-TOXIC ALTHOUGH IT CONTAINS TRIPHENYL PHOSPHATE. UNDER FIRE CONDITIONS, TOXIC ACIDIC VAPORS MAY BE FORMED FROM PHOSPHORUS OXIDES. MIST GENERATED BY HEAT, VIOLENT AGITATION OR SPRAYING WILL IRRITATE SKIN, EYES, NOSE, THROAT, AND RESPIRATORY SYSTEM.
Explanation of Carcinogenicity:PRODUCT CONTAINS NO INGREDIENTS CURRENTLY CLASSIFIED AS CARCINOGENIC BY NTP, IARC OR OSHA.
Effects of Overexposure:IRRITATION OF THE SKIN, EYES, NOSE, THROAT AND RESPIRATORY SYSTEM.

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===== First Aid Measures =====
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First Aid:EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION OCCURS AND PERSISTS, OBTAIN MEDICAL ATTENTION. SKIN: WASH WITH PLENTY OF SOAP AND WATER. GET MEDICAL ATTENTION, IF IRRITATION PERSISTS. INHALATION: REMOVE TO FRESH AIR. IF BREATHING DIFFICULT OR DISCOMFORT OCCURS, CALL A PHYSICIAN. INGESTION:RINSE MOUTH WITH WATER. DILUTE BY GI

Wearing 1 OR 2 GLASSES OR WATER. DO NOT INDUCE
VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
SEE A MEDICAL DOCTOR IMMEDIATELY.

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

Flash Point Method:PMCC
Flash Point:=243.3C, 470.F
Autoignition Temp:=538.C, 1000.4F
Lower Limits:NOT GIVEN
Upper Limits:NOT GIVEN
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE(CO2),DRY CHEMICAL,
MULTIPURPOSE FOAM.
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING,
INCLUDING
NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.
Unusual Fire/Explosion Hazard:SLIGHTLY COMBUSTIBLE. NO EXPLOSION
HAZARD.

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

Spill Release Procedures:KEEP MATERIAL OUT OF STREAMS AND SEWERS.
ABSORBED SPILLED MATERIAL ON COMMERCIAL OIL ABSORBANT OR SAND. PUT
THE CONTAMINATED ABSORBANT INTO A DOT APPROVED CONTAINER AND
DISPOSE OF ACCORDING TO THE METHODS OUTLINED IN THE DISPOSAL
SECTION.

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:AVOID THE GENERATION OF MISTS IN
OCCUPIED AREAS. STORE IN CLOSED CONTAINERS WHEN NOT IN USE. AT HIGH
TEMPERATURE OR IF MISTING IS ANTICIPATED, EXHAUST VENTILATION IS
RECOMMENDED.
Other Precautions:REMOVE CONTAMINATED CLOTHING IMMEDIATELY, WASH BEFORE
REUSE. USE ALL APPROVED PERSONAL HYGIENE PRACTICES.

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

Respiratory Protection:IN HIGH TEMPERATURE APPLICATIONS OR WHERE
EXPOSURE TO MISTING IS ANTICIPATED, USE NIOSH CERTIFIED ORGANIC
VAPOR CARTRIDGE. USE SELF CONTAINED BREATHING APPARATUS IN
EMERGENCY SITUATIONS.
Ventilation:CONTROL WITH APPROPRIATE EXHAUST VENTILATION IF MISTING IS
EXPECTED IN OCCUPIED AREAS.
Protective Gloves:RECOMMEND BUTYL(HEAVY DUTY) OR POLYETHYLENE(LIGHT
DUTY)GLOVES.
Eye Protection:CHEMICAL SAFETY GOGGLES ARE RECOMMENDED.
Other Protection

Protective Equipment: WEAR AN APRON OR IMPERVIOUS CLOTHING AND RUBBER BOOTS IF SPLASHING IS EXPECTED.

Supplemental Safety and Health
MIL SPEC: MIL-H-19457

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

HCC:V6
Boiling Pt:=220.C, 428.F
Vapor Pres:0.033(MMHG AT 150C)
Spec Gravity:1.145-1.165@20C
Solubility in Water:INSOLUBLE
Appearance and Odor:CLEAR BLUE LIQUID,ODORLESS

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

Stability Indicator/Materials to Avoid: YES
Stability Condition to Avoid: STORE IN A COOL PLACE.
Hazardous Decomposition Products: UNDER FIRE CONDITIONS, TOXIC ACIDIC VAPORS MAY BE FORMED FROM PHOSPHORUS OXIDES.

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

Toxicological Information: ACUTE: BASED ON A SIMILAR PRODUCT, THIS PRODUCT HAS LOW ACUTE ORAL AND DERMAL TOXICITY AND IS NOT IRRITATING TO THE EYES AND SKIN. NO EVIDENCE OF DELAYED NEUROTOXICITY WAS OBSERVED IN RATS AND HENS FOLLOWING ACUTE EXPOSURE. CHRONIC: BASED ON A SIMILAR PRODUCT, THIS PRODUCT IS NOT MUTAGENIC IN THE AMES TEST. A REPRODUCTIVE STUDY WITH A BUTYLATED TRIPHENYL PHOSPHATE INDICATED A SIGNIFICANT DECLINE IN REPRODUCTION IN FEMALE RATS CHARACTERIZED BY LOW MATING AND FERTILITY INDICES, DECREASED NUMBER OF LITTERS AND ABNORMAL ESTROUS CYCLES. FERTILITY WAS ALSO DECREASED IN MALE RATS.

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

Ecological: INFORMATION BELOW IS FOR A SIMILAR PRODUCT: 96 HR. LC50 (RAINBOW TROUT) = 3.4 (2.8-4.0) MG/L; 96 HR. LC50 (FATHEAD MINOW) = 42.3 (32.6-54.9) MG/L; 48 HR. EC50 (DAPHNIA MAGNA) = 3.9 (3.2-4.7) MG/L.

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

Waste Disposal Methods: AN ACCEPTABLE METHOD OF DISPOSAL IS TO BURN IN AN INCINERATOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL ENVIRONMENTAL LAWS, RULES, REGULATIONS, STANDARDS AND OTHER REQUIREMENTS. THE APPROPRIATE REGULATORY AGENCY

ENCIES SHOULD BE
CONTACTED PRIOR TO DISPOSAL.

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

Transport Information:DOT PROPER SHIPPING NAME: ENVIRONMENTALLY
HAZARDOUS SUBSTANCES, LIQUID, NOS (TRIARYL PHOSPHATE, NOS) (TRIARYL
PHOSPHATE, T-BUTYLATED); UN3082, PG III. INDG & IATA:
ENVIRONMENTALLY HAZARDOUS SUBSTANCE S, LIQUID, NOS (TRIARYL
PHOSPHATE, NOS) (TRIARYL PHOSPHATE, T-BUTYLATED).

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

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SARA Title III Information:SECTION 311: DELAYED (CHRONIC) HEALTH HAZARD
(TPP). SECTION 312 THRESHOLD PLANNING QUANTITY: 10,000 LBS.
SECTION 313 REPORTABLE INGREDIENTS: NOT LISTED. SECTION 302
EXTREMELY HAZARDOUS SUBSTANCES: NOT LISTED.

Federal Regulatory Information:CERCLA REGULATORY (40 CFR 302.4): NOT
LISTED. TSCA REGULATORY (40 CFR 707.60): ALL COMPONENTS ARE
LISTED.

State Regulatory Information:MASSACHUSETTS SUBSTANCES LIST, NEW JERSEY
HAZARDOUS SUBSTANCES L
IST.

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

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