

PRESTONE PRODUCTS CORPORATION -- RE4MFTH-55 BE SERIES REINHIBITOR FOR MIL-A-46153,  
PART 1 -- 6850-01-397-1960

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

Product ID:RE4MFTH-55 BE SERIES REINHIBITOR FOR MIL-A-46153, PART 1

MSDS Date:05/01/1995

FSC:6850

NIIN:01-397-1960

MSDS Number: CFYSP

=== Responsible Party ===

Company Name:PRESTONE PRODUCTS CORPORATION

Address:83 WOOSTER HEIGHTS ROAD

City:DANBURY

State:C

T

ZIP:06810-1925

Country:US

Info Phone Num:203-731-3686

Emergency Phone Num:800-424-9300(CHEMTREC)

CAGE:EO340

=== Contractor Identification ===

Company Name:FINISH THOMPSON INC

Address:921 GREENGARDEN RD

Box:City:ERIE

State:PA

ZIP:16501-1591

Country:US

Phone:814-455-4478/800-942-5969

CAGE:30255

Company Name:PRESTONE PRODUCTS CORPORATION

Address:55 FEDERAL ROAD

City:DANBURY

State:CT

ZIP:06810

Country:US

Phone:203-830-7865

CAGE:EO340

Company Name:PRESTONE PRODUCTS CORPORATION

Box:UNKNOW

CAGE:PRESP

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Composition/Information on Ingredients  
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Ingred Name:ETHYLENE GLYCOL (SARA 313) (CERCLA) CONTAINS INGRED #2.  
CAS:107-21-1  
RTECS #:KW2975000  
Fraction by Wt: 15-25%  
Other REC Limits:NONE RECOMMENDED  
ACGIH TLV:C STEL39PPM,A4,VAP96  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:DIETHYLENE GLYCOL IN INGRED #1.  
CAS:111-46-6  
RTECS #:ID5950000  
Fraction by Wt: 0-8%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:POTASSIUM HYDROXIDE (CERCLA)  
CAS:1310-58-3  
RTECS #:TT2100000  
Fr  
action by Wt: 15-25%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C 2 MG/M3  
ACGIH TLV:C 2 MG/M3; 9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:SODIUM HYDROXIDE (CERCLA)  
CAS:1310-73-2  
RTECS #:WB4900000  
Fraction by Wt: 5-10%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2 MG/M3  
ACGIH TLV:C 2 MG/M3; 9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:SODIUM TOLYLTRIAZOLE  
CAS:64665-57-2  
Fraction by Wt: 1-5%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:BENZOTRIAZOLE  
CAS:95-14-7  
RTE

CS #:DM1225000  
Fraction by Wt: 1-5%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM SILICATE  
CAS:1344-09-8  
Fraction by Wt: 1-5%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 25-60%  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO O

SHA:NO

Health Hazards Acute and Chronic:INGEST:MAY RESULT IN IMMEDIATE/SEVERE BURNS TO LIPS/TONGUE/ORAL MUCOSA/ESOPHAGUS W/POSSIBLE GI HEMORRHAGE/PERFORATION.CNS EFFECTS.CARDIAC FAILURE,PULM EDEMA.SEVERE KIDNEY DMG W/LG VOL OF ETHYLENE GLYCOL -FATAL.SKIN ABSORPTION:NO EVIDENCE OF ADVERSE EFFECTS FROM AVAIL INFO.INHAL:EXT LUNG IRRIT,DMG/DESTRUCTION OF LUNG (SUPP)

Explanation of Carcinogenicity:PER MSDS:NONE OF INGREDIENTS IS LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA/NTP /IARC.

Effects of Overexposure:INGEST:DROOLING,DIFFICULTY W/SWALLOWING,BREATH,SPEAKING,CHEST PAIN,NAUSEA,VOMIT,DIZZINESS,MALaise,BLUR VISION,IRRITABILITY,LUMBAR PAIN,OLIGURIA,UREMIA,IRREGULAR EYE MOVEMENTS,CONVULSIONS,COMA.WEAK FACIAL MUSCLES,DIMINISH HEARING,DIFFICULTY W/SWALLOW,LIVER INJURY.INHAL:HORSENESS,DIFFICULT BREATH,RESPIRATORY DISTRESS,DIZZINESS,NYSTAGMUS.SKIN SENS,DERM.

Medical Cond Aggravated by Exposure:MAY AGGRAVATE EXISTING KIDNEY DISEASE.

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

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First Aid:INGEST:DONT INDUCE VOMIT.RINSE MOUTH.DRINK GLASSFUL OF MILK/H2O.GET IMMED MED ATTN;EMERG ADVICE N/AVAI TAKE TO EMERG MED FACI.SKIN:REMOVE CONTAM CLOTH/SHOE.IMMED WASH W/SOAP/COPIOUS AMTS OF H2O.IRRIT/ RED DVLP/PERS GET MED ATTN.INHAL:SYMPT MOVE TO FRESH AIR.BREATH DIFF GIVE OXY;STOP BREATH ART RESP.GET IMMED MED ATTN.EYE:IMMED FLUSH W/LOTS OF H2O 15MINS MIN.IRRIT,PAIN,ETC GET MED ATTN.(OTHER PRECA)

===== Fire Fighting Measures =====  
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Flash Point:NONE THRU BOILIN  
Autoignition Temp:Autoignition Temp Text:N/DETR  
Lower Limits:N/DETERMINED  
Upper Limits:N/DETERMINED  
Extinguishing Media:APPLY ALCOHOL TYP OR ALL-PURPOSE FOAMS BY MFG'S RECOMMENDED TECHNIQUES FOR LG FIRES.SM FIRES USE H2O FOG,CO2,DRY CHEM.  
Fire Fighting Procedures:COOL FIRE EXPO CNTNRS/STRUCTURES W/H2O.WEAR POSITIVE PRESSURE SELF-CONTAIN BREATH APPARATUS & FULL PROT CLOTH.DONT SPRAY POOL FIRES DIRECTLY.SOLID STREAM(SUPPL)  
Unusual Fire/Explosion Hazard:NONE EXPECTED.

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

Spill Release Procedures:KEEP SPILL FRM MIX W/OTHER MATL.WEAR SPLASHPROOF CHEM GOG/RUBB/NEOPRENE GLOVES.CONTAIN W/RING OF NONCOMBUST ABSORBANT MATL(SPEEDYDRY,VERMICULITE).DIL W/EQUAL ATM OF H2O.POUR MORE ABSORBENT.COLLECT INT O CNTNR.REPORT AS REQUIRE BY CERCLA/LOCAUTHORITIE  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====  
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Handling and Storage Precautions:USE ONLY W/ADEQU VENTI.AVOID BREATH VAP/MIST FRM CHEMS.KEPE TIGHTLY CLSD.DONT STORE IN OPN/UNLABEL CNTNR.STORE IN COOL DRY AREA AWAY FROM INCOMPAT.  
Other Precautions:DONT MIX CHEM DIRECTLY W/OTHER CHEM.USE ONLY AS DIRECTED.NOTE TO DR:INGEST INDUCTION OF EMESIS SHOULD BE AVOIDED-FURTHER CAUSTIC INJURY TO ESOPHAGUS MAY OCCUR.NO SPEC ANTIDOTE FOR ALKALINE CORR INGEST .ETHANOL ANTIDOTAL FOR ETHYLENE GLYCOL.

===== Exposur

e Controls/Personal Protection =====

Respiratory Protection:NONE NEEDED UNDER NORMAL USE  
CONDITIONS.OPERATIONS WHERE TLV EXCEEDED NIOSH/MSHA APPROV ORG VAP  
RESP W/DUST/MIST PRE-FILT OR SUPP AIR RESP RECOMMENDED.EPMT SELECT  
DEPENDS ON CONTAM TYP/CONCEN SELECT I AW 29CFR1910.134/GOOD INDUST  
HGY PRAC.

Ventilation:GEN VENTI SHOULD BE ADEQUATE FOR NORMAL USE.MTL HEAT/MISTED  
& TLV EXCEEDED FORCED VENTI(LOC EXHUAST)MAY BE NEEDED.

Protective Gloves:CHEM RESIST-NEOPRENE,PVC  
COATED

Eye Protection:SPLASH PROOF CHEM SAF GOGG,FCHSIELD

Other Protective Equipment:DONT WEAR CONTACT LENSES.PROT  
CLOTH-APRON,COVERALL,BOOTS-PREVENT SKIN CONTACT.SUITABLE WASH/EYE  
FLUSH FACI IN WORKAREA.

Work Hygienic Practices:CONT CLOTH SHOULD BE IMMED REMOVE;LAUNDER BEF  
REUSE.WEAR PPE WHEN HNDLG.PREVENT EYE/SKIN/CLOTH CONTACT.WASH WELL  
AFT HND

Supplemental Safety and Health

FIREFIGHT:OF H2O/FOAM DIRECTED INTO HOT BURN LIQ CAN CAUSE FROTH.

HEALTH:TISSUE,PNEUITIS/PULM EDEMA

.HI VAP(FRM HEAT MATL IN

ENCLSD/POOR VENTI AREA)NAU,VOMIT,HEAD,DIZZ,IRREG EYE

MOVEMENTS.SKIN:SEVERE I RRRIT &/OR CHEM BURNS RESULTS IN TISSUE

DESTRUCT.EYE:RAPID,SEVERE IRRIT &/OR CHEM BURNS RESULTS IN TISSUE

DESTRUCT,BLIND.

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

HCC:B1

Boiling Pt:=107.8C, 226.F

Melt/Freeze Pt:=-28.9C, -20.F

Vapor Pres:N/DETERMIN

Vapor Density:N/DETERMIN

Spec Gravity:10.5-11.3 DENS

pH:14.0

Viscosity:N/DETERMINED

Evaporation Rate & amp

; Reference:N/DETERMINED

Solubility in Water:100%, COMPLETE

Appearance and Odor:ORANGE-YELLOW COLOR

Percent Volatiles by Volume:N/DETR

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

AVOID STRONG ACIDS,STRONG OXIDIZING AGENTS,MATLS REACTIVE W/HYDROXYL  
COMPOUNDS.

Stability Condition to Avoid:NONE KNOWN

Hazardous Decomposition Products:COMBUSTION PRODUCTS MAY INCLUDE CARBON  
MONOXIDE & CARBON DIOXIDE.

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

Waste Disposal Methods:WASTE MATL RCRA HAZ WASTE-CORRO.DISPO IAW ALL  
LOC/STATE/FED REGS.EMTPY CNTNR RETAIN PROD RESIDUE & MAY BE  
DANGEROUS.DONT REUSE EMTPY CNTNRS.IMMED REPLACE CNTNR LID & DISPO  
PROPERLY.FOLLOW ALL RECOMMEN DED PRECAUT IN HNDLG EMPTY  
CNTNRS.SARA,CERCLA CHEM

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