PRESTONE PRODUCTS CORPORATION -- HEAVY DUTY BRAKE FLUID AS401 -- 9150-00F054444

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

Product ID: HEAVY DUTY BRAKE FLUID AS401
MSDS Date: 04/07/1997
FSC: 9150
NIIN: 00F054444
MSDS Number: CFXWT

=== Responsible Party ===
Company Name: PRESTONE PRODUCTS CORPORATION
Address: 39 OLD RIDGEBURY ROAD
City: DANBURY
State: CT
ZIP: 06810-5109
Country: US
Info Phone Num: 203-830-7800
Emergency Phone Num: 203-830-7800
CAGE: EO340

=== Contractor Identification ===
Company Name: PRESTONE PRODUCTS CORPORATION
Address: 55 FEDERAL ROAD
City: DANBURY
State: CT
ZIP: 06810
Country: US
Phone: 203-830-7865
CAGE: EO340

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

Ingred Name: DIETHYLENE GLYCOL METHYL ETHER, 2-(2-METHOXYETHOXY) ETHANOL METHYL CARBITOL
CAS: 111-77-3
RTECS #: KL6125000
Fraction by Wt: 0-5%

Ingred Name: DIETHYLENE GLYCOL ETHYL ETHER, CARBITOL, CARBITOL CELLOSOLVEETHOXY DIGLYCOL, 2-(2-ETHOXYETHOXY)-ETHANOL
CAS: 111-90-0
RTECS #: KK8750000
Fraction by Wt: 0-10%
INGRED NAME: TERTITOL NONIONIC XD, TERTITOL XD
CAS: 9038-95-3
RTECS #: MD0911000
Fraction by Wt: 0-10%

INGRED NAME: TRIETHYLENE GLYCOL
CAS: 112-27-6
RTECS #: YE4550000
Fraction by Wt: 0-10%

INGRED NAME: 2-(2-PROPOXYETHOXY)ETHANOL
CAS: 6881-94-3
Fraction by Wt: 0-5%

INGRED NAME: PROPRIETARY ADDITIVES
Fraction by Wt: 0-5%

INGRED NAME: BUTOXYTRIGLYCOL
CAS: 143-22-6
RTECS #: KJ9450000
Fraction by Wt: 0-70%

INGRED NAME: METHOXYTRIGLYCOL
CAS: 112-35-6
RTECS #: KL6390000
Fraction by Wt: 0-40%

INGRED NAME: TRIETHYLENE GLYCOL MONOETHYL ETHER *97-3*
CAS: 112-50-5
RTECS #: KK8950000
Fraction by Wt: 0-70%

INGRED NAME: POLYETHYLENE GLYCOL; POLYOXYETHYLENE; PEG 400; PEG 75; PEG 4000; PEG 8000 *97-3*
CAS: 25322-68-3
RTECS #: TQ3500000
Fraction by Wt: 0-80%
Other REC Limits: 10 MG/CUM

INGRED NAME: TETRAETHYLENE GLYCOL, MONOBUTYL ETHER
CAS: 1559-34-8
Fraction by Wt: 0-80%
Ingred Name: PENTAEThYLENE GLYCOL  *97-3*
CAS: 4792-15-8
RTECS #: RZ2670000
Fraction by Wt: 0-80%

Ingred Name: GLYCOL ETHERS, DIETHYLENE GLYCOL, 2,2-OXYBISETHANOL
CAS: 111-46-6
RTECS #: ID5950000
Fraction by Wt: 0-80%

Ingred Name: POLYETHYLENE GLYCOL ETHYL ETHER
CAS: 27879-07-8
Fraction by Wt: 0-80%

Ingred Name: TETRAETHYLENE GLYCOL
CAS: 112-60-7
RTECS #: XC2100000
Fraction by Wt: 0-80%

Ingred Name: POLYETHYLENE GLYCOL MONOMETHYL ETHER  *97-3*
CAS: 9004-74-4
RTECS #: PE2630000
Fraction by Wt: 0-25%

Ingred Name: TETRAETHYLENE GLYCOL MONOMETHYL ETHER
CAS: 23783-42-8
Fraction by Wt: 0-20%

Ingred Name: POLYETHYLENE GLYCOL BUTYL ETHER
CAS: 9004-77-7
Fraction by Wt: 0-25%

Ingred Name: 2-(2-BUTOXYETHYOXY)-ETHANOL, DIETHYLENE GLYCOL MONOBUTYL ETHER (BUTYL CARBITOL)  *97-3*
CAS: 112-34-5
RTECS #: KJ9100000
Fraction by Wt: 0-10%

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

Routes of Entry: Inhalation: YES  Skin: NO  Ingestion: YES
Reports of Carcinogenicity: NTP: NO  IARC: NO  OSHA: NO
Health Hazards Acute and Chronic: INHALATION: IRRITATING TO RESPIRATORY/MUCOUS MEMBRANES. SKIN: IRRITATION/DERMATITIS W/PROLONGED/REPEATED CONTACT. EYES: IRRITANT, POSSIBLE CORNEAL DAMAGE. INGESTION: LARGE AMOUNTS MAY CAUSE CNS DEPRESSION & KIDNEY/LIVER DAMAGE. CHRONIC EFFECTS, ACIDOSIS. GI IRRITANT. CAUSES ADVERSE REPRODUCTIVE EFFECTS/RENAL FAILURE.

Explanation of Carcinogenicity: NONE

Effects of Overexposure: IRRITATION, GASTROINTESTINAL DISTURBANCES, NAUSEA, VOMITING, DIARRHEA, NASAL DISCOMFORT & DISCHARGE, DROWSINESS, GI DISCOMFORT, HEADACHE, DIZZINESS, NARCOSIS, SLURRED SPEECH, BLURRED VISION

First Aid Measures

First Aid: INHALATION: REMOVE TO FRESH AIR. SKIN: WASH W/SOAP & WATER. EYES: IMMEDIATELY FLUSH W/COPIOUS AMOUNTS OF WATER USING A STEADY STREAM FOR A MINIMUM OF 15 MINS. INGESTION: DON'T GIVE ANYTHING BY MOUTH IF UNCONSCIOUS. OBTAIN MEDICAL ATTENTION IN ALL CASES. NOTES TO PHYSICIAN: TREATMENT SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS & CLINICAL CONDITIONS.

Fire Fighting Measures

Flash Point Method: PMCC
Flash Point: 218-275F
Extinguishing Media: WATER FOG, FOAM, ALCOHOL FOAM, CO2/DRY CHEMICAL
Fire Fighting Procedures: COOL FIRE EXPOSED CONTAINERS W/WATER. WEAR POSITIVE PRESSURE SCBA & FULL PROTECTIVE CLOTHING FOR FIRES IN AREAS WHERE CHEMICALS ARE USED/STORED.

Unusual Fire/Explosion Hazard: A DIRECT STREAM OF WATER/FOAM MAY CAUSE FROTHING.

Accidental Release Measures

Spill Release Procedures: WEAR APPROPRIATE PROTECTIVE CLOTHING & EQUIPMENT. COLLECT MATERIAL W/ABSORBENT MATERIAL & PLACE IN APPROPRIATE LABELED CONTAINER FOR DISPOSAL.

Handling and Storage

Handling and Storage Precautions: KEEP CONTAINERS CLOSED WHEN NOT IN USE. STORE IN A COOL, DRY AREA. KEEP AWAY FROM EXCESSIVE HEAT/OPEN FLAMES. USE W/ADEQUATE VENTILATION.
Other Precautions: DON'T REUSE EMPTY CONTAINERS UNLESS CLEANED. DON'T CUT, WELD, DRILL CONTAINERS, EVEN EMPTY. AVOID EYE CONTACT & PROLONGED SKIN CONTACT. AVOID BREATHING VAPORS/MISTS.

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

Respiratory Protection: FOR OPERATIONS WHERE EXPOSURES MAY BE EXCESSIVE, A NIOSH/MSHA APPROVED RESPIRATOR W/AN ORGANIC VAPOR CARTRIDGE & A DUST/MIST PREFILTER/SUPPLIED AIR RESPIRATOR IS RECOMMENDED.

Ventilation: GENERAL FOR NORMAL USE. MECHANICAL/LOCAL EXHAUST: FOR OPERATIONS WHERE PRODUCT IS HEATED/MISTED & EXPOSURES IS EXCESSIVE

Protective Gloves: POLYVINYL CHLORINE COATED

Eye Protection: SPLASH PROOF GOGGLES

Other Protective Equipment: PROTECTIVE CLOTHING, EYE WASHING/FLUSHING FACILITIES

Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. WASH EXPOSED SKIN THOROUGHLY W/SOAP & WATER AFTER USE.

Supplemental Safety and Health

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

Boiling Pt: B.P. Text: >430F

Melt/Freeze Pt: M.P./F.P Text: <-40F

Vapor Density: >1

Spec Gravity: 8.5-8.7

pH: 9-9.8

Solubility in Water: COMPLETE

Appearance and Odor: CLEAR AMBER/YELLOW LIQUID W/MILD ODOR

Percent Volatiles by Volume: 100

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

Stability Indicator/Materials to Avoid: YES

NITRITES, NITROSATING AGENTS, STRONG OXIDIZING AGENTS

Hazardous Decomposition Products: CO, CO2, NITROGEN OXIDES, NITROSAMINE

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

Waste Disposal Methods: RECYCLE, INCINERATE, TREAT/LANDFILL IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

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