



MATERIAL SAFETY DATA SHEET

PRS FUEL OIL CLEANER

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME : ROCHESTER MIDLAND LIMITED
 MANUFACTURERS ADDRESS : 851 PROGRESS COURT, OAKVILLE, ONTARIO
 EMERGENCY PHONE NUMBER: CANUTEC (613) 996-6666
 SUPPLIER IDENTIFIER: NOT AVAILABLE
 SUPPLIER'S ADDRESS: NOT AVAILABLE
 SUPPLIER EMERGENCY PHONE NUMBER: NOT AVAILABLE
 PRODUCT NAME : PRS FUEL OIL CLEANER
 PRODUCT USE : MICROBIAL BASED DEODORIZER AND CLEANER
 WHMIS CATEGORY: D2B
 PREPARED BY : ROCHESTER MIDLAND LIMITED.
 PHONE NUMBER OF PREPARER: (905) 847-3000
 DATE PREPARED: JULY 31, 2007

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS#	EXPOSURE LEVELS	LD (50), ROUTE, SPECIES	LC(50), ROUTE, SPECIES
NO HAZARDOUS INGREDIENTS LISTED UNDER WHMIS INGREDIENT DISCLOSURE LIST.					
OTHER INGREDIENTS	%	CAS#	EXPOSURE LEVELS	LD (50), ROUTE, SPECIES	LC(50), ROUTE, SPECIES
VIABLE BACTERIAL CULTURES	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
ETHOXYLATED LINEAR ALCOHOL	10-30	68439-46-3	NOT AVAILABLE	ORAL 1378 mg/ Kg (RAT) DERMAL >2000 mg/ Kg (RABBIT)	NOT AVAILABLE
ALKYL ARYL SULFONIC ACID	1-5	68584-22-5	NOT AVAILABLE	ORAL 530 mg/ Kg (RAT)	NOT AVAILABLE

SECTION 03: HAZARDS IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS:

ROUTE OF ENTRY: EYES, SKIN, INHALATION, INGESTION
 SKIN CONTACT: MAY CAUSE IRRITATION. ORGANISMS USED ARE NON-PATHOGENIC BUT CAN CAUSE INFECTION WHEN IN CONTACT WITH OPEN WOUNDS OR BROKEN SKIN. THESE ORGANISMS ARE SUSCEPTIBLE TO MANY COMMONLY -USED ANTIBIOTICS.
 SKIN ABSORPTION : SYSTEMATICALLY TOXIC CONCENTRATIONS WILL PROBABLY NOT BE ABSORBED THROUGH THE SKIN.
 EYE: DIRECT CONTACT MAY CAUSE IRRITATION.
 INHALATION: MAY CAUSE IRRITATION, COUGHING, CONGESTION.
 INGESTION: MAY CAUSE IRRITATION, NAUSEA OR VOMITING.
 ACUTE OVER-EXPOSURE EFFECTS: AS ABOVE. OVEREXPOSURE MAY CAUSE HEADACHE, DIZZINESS, TIREDNESS, NAUSEA AND VOMITING.
 CHRONIC OVER EXPOSURE EFFECTS: DERMATITIS

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SECTION 04: FIRST AID MEASURES

EYES: FLUSH EYES WITH ABUNDANT WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN TO ENSURE COMPLETE IRRIGATION OF THE ENTIRE EYE CAVITY. GET MEDICAL ATTENTION.
SKIN: WASH SKIN WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION.
INHALATION: REMOVE VICTIM TO FRESH AIR. ASSIST BREATHING AS NEEDED. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION.
INGESTION: **DO NOT INDUCE VOMITING.** IF VICTIM CONSCIOUS, GIVE 1 - 2 GLASSES OF WATER TO DILUTE STOMACH CONTENTS. **GET MEDICAL ATTENTION.** NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTES TO PHYSICIAN: ALL TREATMENTS SHOULD BE BASED ON OBSERVED SIGNS/SYMPTOMS OF DISTRESS IN THE PATIENT. THE POSSIBILITY OF OVEREXPOSURE TO MATERIALS OTHER THAN THIS PRODUCT SHOULD BE CONSIDERED

SECTION 05: FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD OF DETERMINATION: NONE. TCC
UPPER EXPLOSION LIMIT (% BY VOLUME): NOT APPLICABLE
LOWER EXPLOSION LIMIT (% BY VOLUME): NOT APPLICABLE
AUTO-IGNITION TEMPERATURE: NOT AVAILABLE
FLAMMABILITY CLASSIFICATION: NON-FLAMMABLE
CONDITIONS OF FLAMMABILITY: NONE (PRODUCT WILL NOT BURN).
MEANS OF EXTINCTION: USE WATER SPRAY, DRY CHEMICAL OR FOAM.
SPECIAL FIRE FIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE EQUIPMENT AND USE APPROVED SELF CONTAINED BREATHING APPARATUS. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS TO PREVENT PRESSURE BUILDUP AND POSSIBLE RUPTURE.
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON AND NITROGEN.
EXPLOSION DATA: NOT APPLICABLE
SENSITIVITY TO STATIC DISCHARGE: NOT SENSITIVE
SENSITIVITY TO MECHANICAL IMPACT: NOT SENSITIVE

SECTION 06: ACCIDENTAL RELEASE MEASURES

LEAK AND SPILL PROCEDURES: REMOVE UNPROTECTED PERSONNEL AWAY FROM SPILL AREA. VENTILATE AREA. CLEANUP PERSONNEL MUST WEAR APPROPRIATE EQUIPMENT AS OUTLINED ABOVE. CAUTION: SPILL AREA MAY BE SLIPPERY.
SMALL SPILLS: MOP UP, FLUSH RESIDUE WITH WATER.
LARGE SPILLS: DIKE SPILL. RECLAIM ALL MATERIAL POSSIBLE. ABSORB REMAINDER WITH INERT MATERIAL AND PLACE IN SUITABLE CONTAINERS FOR DISPOSAL. FLUSH RESIDUE WITH WATER. CLEAN SPILL AREA WITH DETERGENT AND WATER.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT: DO NOT GENERATE / BREATHE MISTS. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. AVOID CONTACT WITH OPEN WOUNDS OR BROKEN SKIN. WASH SKIN THOROUGHLY WITH SOAP AND WATER AFTER USE. KEEP CONTAINER CLOSED WHEN NOT IN USE. READ AND FOLLOW ALL PRODUCT LABELS. DO NOT CONTAMINATE FOOD, FEED OR POTABLE WATER DURING USE OR STORAGE OF THIS PRODUCT.
STORAGE REQUIREMENTS: KEEP OUT OF REACH OF CHILDREN. STORE AWAY FROM FOOD ITEMS AND POTABLE WATER SYSTEMS. STORE IN A COOL WELL VENTILATED AREA. (MIN 4 °C MAX 60 °C). AVOID EXPOSURES TO TEMPERATURE EXTREMES TO MAINTAIN SHELF LIFE. DO NOT RE-USE CONTAINER. STORE IN ORIGINAL CONTAINER. DO NOT FREEZE.

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SECTION 08: EXPOSURE CONTROLS/ PERSONAL PROTECTION

EYE PROTECTION: WEAR CHEMICAL SAFETY GLASSES WITH SIDE SHIELDS.
RESPIRATORY PROTECTION: NONE NORMALLY REQUIRED. USE NIOSH APPROVED RESPIRATOR IF EXPOSURE LEVELS ARE EXCEEDED OR IF SPRAY MIST CAUSES IRRITATION.
GLOVES: WEAR RUBBER, NEOPRENE OR VINYL GLOVES. INCIDENTAL SKIN CONTACT IS NOT EXPECTED TO CAUSE ANY SIGNIFICANT IRRITATION.
OTHER PROTECTIVE EQUIPMENT: AS NEEDED TO PREVENT ALL CONTACT WITH PRODUCT.
SPECIFIC ENGINEERING CONTROLS..... NONE NORMALLY REQUIRED. USE GENERAL MECHANICAL AND / OR LOCAL EXHAUST AS NEEDED IF MIST IN THE AIR.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID
ODOUR AND APPEARANCE: OPAQUE WHITE LIQUID WITH MILD CHEMICAL ODOUR.
ODOUR THRESHOLD: NOT AVAILABLE
SPECIFIC GRAVITY: 0.99-1.005
VAPOUR PRESSURE : NOT AVAILABLE
VAPOUR DENSITY (AIR=1): NOT AVAILABLE
VOC CONTENT (%): NOT AVAILABLE
EVAPORATION RATE; AS WATER
BOILING POINT; NOT AVAILABLE
PH: 7-9.5
FREEZING POINT: 0 °C (32 °F) (VIABLE BACTERIAL CULTURES WILL DIE AT LOW TEMPERATURES). DO NOT FREEZE.
DENSITY (g/ ml): 0.99-1.005
COEFFICIENT OF WATER/OIL DISTRIBUTION: COMPLETELY WATER SOLUBLE

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS. (MIN 4 °C MAX 60 °C).
INCOMPATIBLE MATERIALS: AVOID OXIDIZERS, STRONG ACIDS OR ALKALIS AS MAY INACTIVATE BACTERIAL CULTURES.
CONDITIONS OF REACTIVITY: AVOID TEMPERATURE EXTREMES AS VIABLE BACTERIAL CULTURES MAY BE INACTIVATED.
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND NITROGEN

SECTION 11: TOXICOLOGICAL INFORMATION

IRRITANCY OF PRODUCT: MILD IRRITANT
SENSITIZATION TO MATERIAL: INDIVIDUALS WITH A HISTORY OF DERMAL ALLERGIC REACTION MAY EXPERIENCE SLIGHT REDNESS ON HANDS AND FOREARMS.
CARCINOGENICITY,: NO KNOWN CARCINOGENS LISTED BY OSHA, IARC OR NTP.
REPRODUCTIVE EFFECTS: NO KNOWN REPRODUCTIVE EFFECTS.
TERATOGENICITY: NOT AVAILABLE.
MUTAGENICITY: NOT AVAILABLE
TOXICOLOGICALLY SYNERGISTIC PRODUCTS: NOT AVAILABLE.

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SECTION 12: ECOLOGICAL INFORMATION

THERE IS NO ECOLOGICAL INFORMATION AVAILABLE FOR PRODUCT. INDIVIDUAL COMPONENT INFORMATION (AS AVAILABLE) ONLY. ECOTOXICOLOGICAL INFORMATION TO FOLLOW IS BASED LARGELY OR COMPLETELY ON INFORMATION FOR COMPONENTS ON A 100% ACTIVE INGREDIENT BASIS.

ECOTOXICOLOGICAL INFORMATION:

AQUATIC TOXICITY: FISH SPECIES DATA: ETHOXYLATED LINEAR ALCOHOL LC50, 96 HR STATIC ACUTE, FATHEAD MINNOW: 8.5 mg/L

ALKYL ARYL SULFONIC ACID LC50, 96 HR, STATIC, ONCORHYNCHUS MYKISS: 3 mg/L

AQUATIC TOXICITY: INVERTEBRATES: ETHOXYLATED LINEAR ALCOHOL LC50, 96 HR STATIC ACUTE, DAPHNIA: 5.3 mg/L

ALKYL ARYL SULFONIC ACID EC50, 48 HR, DAPHNIA MAGNA: 2.9 mg/L

AQUATIC TOXICITY: (GROWTH INHIBITION) PLANTS: NO DATA

ACUTE AQUATIC TOXICITY: MICROORGANISMS: ALKYLARYL SULFONIC ACID EC50, 6 HR, PSEUDOMONAS FLUORESCENS : 5 mg/L

BIODEGRADABILITY: ETHOXYLATED, LINEAR ALCOHOL COMPONENT IS READILY BIODEGRADABLE. ETHOXYLATED LINEAR ALCOHOL COMPONENT HAS 88% OXYGEN REMOVAL IN 28 DAYS. 100% DOC REMOVAL

MOBILITY: NOT AVAILABLE.

PERSISTENCE: NOT AVAILABLE

BIOACCUMULATIVE: NOT AVAILABLE

CHEMICAL FATE INFORMATION: NOT AVAILABLE.

OTHER INFORMATION: NOT AVAILABLE.

SECTION 13: DISPOSAL CONSIDERATIONS

IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS.

SECTION 14: TRANSPORT INFORMATION

TDG : NOT REGULATED UNDER TDG

ADDITIONAL INFORMATION: NOT AVAILABLE

MARINE POLLUTANT: NO

SECTION 15: REGULATORY INFORMATION:

DSL STATUS: LISTED

WHMIS CLASSIFICATION: D2B

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

SECTION 16: OTHER INFORMATION

DISCLAIMER: THIS INFORMATION WAS COMPILED FROM CURRENT, RELIABLE SOURCES AND IS BELIEVED TO BE CORRECT. AS DATA AND/ OR REGULATIONS CHANGE, AND CONDITIONS OF USE ARE BEYOND OUR CONTROL, NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.