



MATERIAL SAFETY DATA SHEET

DFE 401 (REVISED)

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 : DFE 401
 PRODUCT USE : HEAVY DUTY CLEANER AND DEEP SCRUB
 WHMIS CATEGORY: D2B
 PREPARED BY : ROCHESTER MIDLAND LIMITED.
 PHONE NUMBER OF PREPARER: (905) 847-3000
 DATE PREPARED: DECEMBER 31, 2005

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS#	EXPOSURE LEVELS	LD (50), ROUTE, SPECIES	LC(50), ROUTE, SPECIES
NO HAZARDOUS INGREDIENTS LISTED ON WHMIS INGREDIENT DISCLOSURE LIST					
OTHER INGREDIENTS	%	CAS#	EXPOSURE LEVELS	LD (50), ROUTE, SPECIES	LC(50), ROUTE, SPECIES
ETHOXYLATED LINEAR ALCOHOL	3-7	68439-46-3	NOT AVAILABLE	ORAL >500-2000 mg/ Kg (RAT) DERMAL >2000 mg/ Kg (RAT)	>20 mg/ L 1 HOUR EXPOSURE (RAT)
ETHOXYLATED LINEAR ALCOHOL	0.5-1.5	68439-45-2	NOT AVAILABLE	ORAL 6.7 ml / Kg (RAT)	NOT AVAILABLE

SECTION 03: HAZARDS IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS:

ROUTE OF ENTRY: EYES, SKIN, INHALATION, INGESTION

SKIN CONTACT: PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION.

SKIN ABSORPTION : NOT AVAILABLE

EYE: DIRECT CONTACT WITH CONCENTRATED PRODUCT MAY CAUSE IRRITATION.

INHALATION: INHALATION OF SPRAY MISTS FROM CONCENTRATED PRODUCT MAY CAUSE MILD IRRITATION TO MUCOUS MEMBRANES OF THE NOSE, THROAT AND ESOPHAGUS.

INGESTION: MILD IRRITANT. INGESTION OF LARGE AMOUNTS MAY CAUSE IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

ACUTE OVER-EXPOSURE EFFECTS: AS ABOVE.

CHRONIC OVER EXPOSURE EFFECTS: NONE KNOWN.

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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. PRODUCT WILL NOT BURN.

UPPER EXPLOSION LIMIT (% BY VOLUME): NOT APPLICABLE

LOWER EXPLOSION LIMIT (% BY VOLUME): NOT APPLICABLE

AUTO-IGNITION TEMPERATURE: NOT AVAILABLE

FLAMMABILITY CLASSIFICATION: NON-FLAMMABLE LIQUID

CONDITIONS OF FLAMMABILITY: NONE.

MEANS OF EXTINCTION: AS FOR SURROUNDING FIRE.

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. DO NOT SPATTER OR SPLASH PRODUCT.

HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON.

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: CLEANUP PERSONNEL MUST USE FULL PROTECTIVE EQUIPMENT. REMOVE UNPROTECTED PERSONNEL AWAY FROM SPILL AREA. VENTILATE AREA. CAUTION: SPILL AREA MAY BE SLIPPERY.

SMALL SPILLS: MOP UP, AND FLUSH AREA WITH WATER.

LARGE SPILLS: DIKE SPILL. DO NOT ALLOW SPILL TO ENTER OPEN WATERWAYS OR SEWERS. RECLAIM ALL MATERIAL POSSIBLE. ABSORB REMAINDER WITH INERT MATERIAL AND PLACE IN SUITABLE CONTAINERS FOR DISPOSAL. FLUSH AREA WITH WATER.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN OR CLOTHING. WASH SKIN THOROUGHLY AFTER HANDLING. DO NOT BREATHE MISTS/ SPRAYS. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE RE-USE. KEEP CONTAINER CLOSED WHEN NOT IN USE. MIX ONLY WITH WATER. READ AND FOLLOW LABEL INSTRUCTIONS. DO NOT CONTAMINATE FOOD, POTABLE WATER OR FEED DURING USE OR STORAGE OF THIS PRODUCT.

STORAGE REQUIREMENTS: KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE IN A COOL WELL VENTILATED AREA AWAY FROM INCOMPATIBLE MATERIALS. KEEP FROM FREEZING. KEEP OUT OF REACH OF CHILDREN. DO NOT REUSE CONTAINER.

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SECTION 08: EXPOSURE CONTROLS/ PERSONAL PROTECTION

EYE PROTECTION: WEAR CHEMICAL SAFETY GOGGLES.
RESPIRATORY PROTECTION: NONE NORMALLY REQUIRED.
GLOVES: WEAR RUBBER OR PLASTIC GLOVES.
OTHER PROTECTIVE EQUIPMENT: AS NEEDED TO PREVENT ALL CONTACT WITH PRODUCT.
SPECIFIC ENGINEERING CONTROLS:..... NONE NORMALLY REQUIRED. USE LOCAL EXHAUST VENTILATION TO CONTROL VAPOURS OR SPRAY MISTS IN POORLY VENTILATED AREAS.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID
ODOUR AND APPEARANCE: MILD DETERGENT ODOUR, CLEAR WHITE TO LIGHT YELLOW LIQUID.
ODOUR THRESHOLD: NOT AVAILABLE
SPECIFIC GRAVITY: 0.992-1.002
VAPOUR PRESSURE : NOT AVAILABLE
VAPOUR DENSITY (AIR=1): NOT AVAILABLE
VOC CONTENT (%): NOT AVAILABLE
EVAPORATION RATE: AS WATER
BOILING POINT: 100° C (212 ° F)
PH: 6.5-7.5
FREEZING POINT: NOT AVAILABLE
DENSITY (g/ ml): 0.992-1.002
COEFFICIENT OF WATER/OIL DISTRIBUTION: COMPLETELY WATER SOLUBLE

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE
INCOMPATIBLE MATERIALS: DO NOT MIX WITH ACIDS AS THIS WILL NEUTRALIZE ACTIVE INGREDIENTS.
CONDITIONS OF REACTIVITY: NONE
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON.

SECTION 11: TOXICOLOGICAL INFORMATION

IRRITANCY OF PRODUCT: MILD IRRITANT
SENSITIZATION TO MATERIAL: ETHOXYLATED LINEAR ALCOHOL COMPONENT IS NOT A SENSITIZER.
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 INDIVIDUAL COMPONENT EXPRESSED ON A 100% ACTIVE INGREDIENT BASIS.

ECOTOXICOLOGICAL INFORMATION:

AQUATIC TOXICITY: FISH SPECIES DATA:	ETHOXYLATED LINEAR ALCOHOL COMPONENT IS EXPECTED TO BE TOXIC:1<LC/EC/IC50<=10 mg/ L
AQUATIC TOXICITY: INVERTEBRATES:	ETHOXYLATED LINEAR ALCOHOL COMPONENT IS EXPECTED TO BE TOXIC:1<LC/EC/IC50<=10 mg/ L
AQUATIC TOXICITY: ALGAE:	ETHOXYLATED LINEAR ALCOHOL COMPONENT IS EXPECTED TO BE TOXIC:1<LC/EC/IC50<=10 mg/ L
AQUATIC TOXICITY: MICROORGANISMS:	ETHOXYLATED LINEAR ALCOHOL COMPONENT IS EXPECTED TO HAVE LOW TOXICITY:LC/EC/IC50 >100 mg/ L
BIODEGRADABILITY:	ETHOXYLATED LINEAR ALCOHOL COMPONENT IS READILY BIODEGRADABLE
MOBILITY:	ETHOXYLATED LINEAR ALCOHOL COMPONENT DISSOLVES IN WATER. IF PRODUCT ENTERS SOIL, IT WILL BE HIGHLY MOBILE AND MAY CONTAMINATE GROUNDWATER.
PERSISTENCE:	NOT AVAILABLE
BIOACCUMULATIVE:	ETHOXYLATED LINEAR ALCOHOL COMPONENT IS UNLIKELY TO BIOACCUMULATE DUE TO METABOLISM AND EXCRETION.
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 (CANADA):	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.