

# MSDS DATA SHEET

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CHEMISTRI 10/10/03  
DISPLAY MATERIAL SAFETY DATA SHEET 15:36:12  
SCREEN QA06 KEY 0000941092,0000000018  
FID#: 00318108 VER-DT: 08/15/01

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SECTION 01: CHEMICAL PRODUCT & COMPANY ID  
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PRODUCT PRIMARY NAME: MOBILTEMP 1

SAFE USE CATEGORY AND DESCRIPTION: 38 -OILS AND LUBRICANTS

LAST UPDATED DATE: 2001-08-15

MANUFACTURER'S ID (MID): 000533232  
MANUFACTURER'S NAME: EXXONMOBIL OIL CORP.  
MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 609-737-4411  
US 800-662-4525 EXT 0003  
MANUFACTURER'S MAILING ADDRESS:  
P.O. BOX 1031  
SEE MC82, ALL US MSDS USE THIS  
US

SECTION 1 - OTHER INFORMATION: NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBs. USE: INDUSTRIAL GREASE. CHEMICAL NAME: SEVERE TREAT MIN. OILS & ADDITIVES. HAZARDS IDENTIFICATION: UNDER NORMAL CONDITIONS OF USE, THIS PRODUCT IS NOT CONSIDERED HAZARDOUS ACCORDING TO REGULATORY GUIDELINES (SEE SECTION 15). EMERGENCY OVERVIEW: AMBER GREASE. DOT ERG NO: NOT APPLICABLE.

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SECTION 02: COMPOSITION & INGREDIENT INFO  
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CAS#	FORMULATION	W/V	CHEMICAL NAME
000056815	R 1.0000/ 5.0000%	W	GLYCEROL
007440666	= 0.0300/ 0.0000%	W	ZINC
*			-S,S'-, (T-4)-
068953582	= 6.1900/ 0.0000%	W	QUATERNARY AMMONIUM COMPOUNDS, BIS
*			(HYDROGENATED TALLOW ALKYL)DIMETHY
*			L-, salt with BENTONITE

SECTION 2 - OTHER INFORMATION: US OSHA HAZARD COMMUNICATION STANDARD: WHEN USED FOR ITS INTENDED PURPOSES, THIS PRODUCT IS NOT CLASSIFIED AS HAZARDOUS IN ACCORDANCE WITH OSHA 29 CFR 1910.1200.

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SECTION 03: HAZARDS IDENTIFICATION  
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PRIMARY ENTRY ROUTE INDICATORS:  
SKIN PRIMARY ENTRY ROUTE INDICATOR = Y  
EYE PRIMARY ENTRY ROUTE INDICATOR = Y  
INHALATION PRIMARY ENTRY ROUTE INDICATOR = Y  
INGESTION PRIMARY ENTRY ROUTE INDICATOR = Y  
EFFECTS OF OVEREXPOSURE - SKIN: POTENTIAL HEALTH EFFECTS: EXCESSIVE EXPOSURE MAY RESULT IN SKIN IRRITATION.  
EFFECTS OF OVEREXPOSURE - EYE: POTENTIAL HEALTH EFFECTS: EXCESSIVE EXPOSURE MAY RESULT IN EYE IRRITATION.

ADDITIONAL HEALTH HAZARD DATA: POTENTIAL HEALTH EFFECTS: UNDER NORMAL CONDITIONS OF INTENDED USE, THIS PRODUCT DOES NOT POSE A RISK TO HEALTH. EXCESSIVE EXPOSURE MAY RESULT IN RESPIRATORY IRRITATION.

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SECTION 04: FIRST AID MEASURES  
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EMERGENCY FIRST AID PROCEDURES - SKIN: WASH CONTACT AREAS WITH SOAP AND WATER. REMOVE AND CLEAN OIL SOAKED CLOTHING DAILY AND WASH AFFECTED AREA. INJECTION INJURY WARNING: IF PRODUCT IS INJECTED INTO OR UNDER THE SKIN, OR INTO ANY PART OF THE BODY, REGARDLESS OF THE APPEARANCE OF BY A PHYSICIAN AS A SURGICAL EMERGENCY. EVEN THOUGH INITIAL SYMPTOMS FROM HIGH PRESSURE INJECTION MAY BE MINIMAL OR ABSENT, EARLY SURGICAL TREATMENT WITHIN THE FIRST FEW HOURS MAY SIGNIFICANTLY REDUCE THE ULTIMATE EXTENT OF INJURY.

EMERGENCY FIRST AID PROCEDURES - EYES: FLUSH THOROUGHLY WITH WATER. IF IRRITATION OCCURS, CALL A PHYSICIAN.

EMERGENCY FIRST AID PROCEDURES - INHALATION: REMOVE FROM FURTHER EXPOSURE. IF RESPIRATORY IRRITATION, DIZZINESS, NAUSEA OR UNCONSCIOUSNESS OCCURS, SEEK IMMEDIATE MEDICAL ASSISTANCE. IF BREATHING HAS STOPPED, ASSIST VENTILATION WITH MECHANICAL DEVICE OR USE MOUTH-TO-MOUTH RESUSCITATION.

EMERGENCY FIRST AID PROCEDURES - INGESTION: NOT EXPECTED TO BE A PROBLEM. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS. DO NOT INDUCE VOMITING.

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SPECIAL FIRE FIGHTING PROCEDURES: WATER OR FOAM MAY CAUSE FROTHING. USE WATER TO KEEP FIRE EXPOSED CONTAINERS COOL. WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURE. PREVENT RUNOFF FROM FIRE CONTROL OR DILUTION FROM ENTERING STREAMS, SEWERS, OR DRINKING WATER SUPPLY. SPECIAL PROTECTIVE EQUIPMENT: FOR FIRES IN ENCLOSED AREAS, FIRE FIGHTERS MUST USE SELF-CONTAINED BREATHING APPARATUS. EXTINGUISHING MEDIA: CARBON DIOXIDE, FOAM, DRY CHEMICAL AND WATER FOG.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

NFPA CODES:

NFPA FLAMMABILITY CODE = 1

NFPA HEALTH CODE = 0

NFPA REACTIVITY CODE = 0

FLASH POINT TEMPS: > 200.00C/ 392.00F

FLASH POINT METHOD: COC

FLASH POINT METHOD TEXT: ASTM D-92

SECTION 5 - OTHER INFORMATION: COMBUSTION PRODUCTS: FUMES, SMOKE, CARBON MONOXIDE, SULFUR OXIDES, ALDEHYDES AND OTHER DECOMPOSITION PRODUCTS, IN THE CASE OF INCOMPLETE COMBUSTION. FLAMMABLE LIMITS (APPROX % VOL. IN AIR) LEL AND UEL: NOT ESTABLISHED. FLAMMABILITY (SOLIDS): NOT ESTABLISHED. AUTO FLAMMABILITY: NOT APPLICABLE. EXPLOSIVE PROPERTIES: NOT APPLICABLE.

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SECTION 06: ACCIDENTAL RELEASE MEASURES  
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SPILL OR LEAK PROCEDURES: NOTIFICATION PROCEDURES: REPORT SPILLS/RELEASES AS REQUIRED TO APPROPRIATE AUTHORITIES. U.S. COAST GUARD AND EPA REGULATIONS REQUIRE IMMEDIATE REPORTING OF DRY CREEKS. REPORT SPILL/RELEASE TO COAST GUARD NATIONAL RESPONSE CENTER TOLL FREE NUMBER (800)424-8802. IN CASE OF ACCIDENT OR ROAD

SPILL NOTIFY CHEMTREC (800)424-9300. PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: LAND SPILL: SHUT OFF SOURCE TAKING NORMAL SAFETY PRECAUTIONS. TAKE MEASURES TO MINIMIZE THE EFFECTS ON GROUND WATER. RECOVER BY PUMPING OR CONTAIN SPILLED LIQUID WITH SAND OR OTHER SUITABLE ABSORBENT AND REMOVE MECHANICALLY INTO CONTAINERS. IF NECESSARY, DISPOSE OF ADSORBED RESIDUES AS DIRECTED IN SECTION 13. WATER SPILL: CONFINE THE SPILL IMMEDIATELY WITH BOOMS. WARN OTHER SHIPS IN THE VICINITY. NOTIFY PORT AND OTHER RELEVANT AUTHORITIES. REMOVE FROM THE SURFACE BY SKIMMING OR WITH SUITABLE ABSORBENTS. IF PERMITTED BY REGULATORY AUTHORITIES THE USE OF SUITABLE DISPERSANTS SHOULD BE CONSIDERED WHERE RECOMMENDED IN LOCAL OIL SPILL PROCEDURES. PERSONAL PRECAUTIONS: SEE SECTION 8.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: HIGH PRESSURE INJECTION UNDER THE SKIN MAY OCCUR DUE TO THE RUPTURE OF PRESSURIZED LINES. ALWAYS SEEK MEDICAL ATTENTION. NO SPECIAL PRECAUTIONS ARE NECESSARY BEYOND NORMAL GOOD HYGIENE PRACTICES. SEE SECTION 8 FOR ADDITIONAL PERSONAL PROTECTION ADVICE WHEN HANDLING THIS PRODUCT. STORAGE: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT STORE IN OPEN OR UNLABELLED CONTAINERS. STORE AWAY FROM STRONG OXIDIZING AGENTS AND COMBUSTIBLE MATERIALS. DO NOT STORE NEAR HEAT, SPARKS, FLAME OR STRONG OXIDANTS. SPECIAL PRECAUTIONS: PREVENT SMALL SPILLS AND LEAKAGES TO AVOID SLIP HAZARD. EMPTY CONTAINER WARNING: EMPTY CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. DO NOT ATTEMPT TO REFILL OR CLEAN CONTAINER SINCE RESIDUE IS DIFFICULT TO REMOVE. EMPTY DRUMS A DRUM RECONDITIONER. ALL CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS.

#### SECTION 08: EXPOSURE CONTROLS - PROTECTION

EYE PROTECTION: GENERALLY EYE CONTACT IS UNLIKELY WITH THIS TYPE MATERIAL. IF EYE CONTACT IS LIKELY, SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL TYPE GOGGLES SHOULD BE WORN.

RESPIRATORY PROTECTION: NO SPECIAL REQUIREMENTS UNDER ORDINARY CONDITIONS OF USE AND WITH ADEQUATE VENTILATION.

ENGINEERING CONTROLS: VENTILATION: USE ADEQUATE VENTILATION.

ALWAYS BE FOLLOWED.

PROTECTIVE GLOVES (SPECIFY TYPE): IF PROLONGED OR REPEATED SKIN CONTACT IS LIKELY, OIL IMPERVIOUS GLOVES SHOULD BE WORN.

#### SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT TEXT: NOT ESTABLISHED

MELTING/FREEZE POINT TEXT: NOT ESTABLISHED

POUR POINT TEXT: NOT APPLICABLE

SPECIFIC GRAVITY VALUES: = 0.9480

SPECIFIC GRAVITY TEXT: RELATIVE DENSITY 15/4 C

VAPOR DENSITY TEXT: NOT ESTABLISHED

VAPOR PRESSURE TEXT: <0.1 MMHG 20 C

EVAPORATION RATE TEXT: NOT ESTABLISHED

SOLUBILITY IN WATER TEXT: NEGLIGIBLE

PH OF PRODUCT IN SOLUTION WITH WATER/TEXT: NOT APPLICABLE

APPEARANCE: AMBER GREASE

ODOR: MILD ODOR. ODOR THRESHOLD-PPM: NOT ESTABLISHED.

VISCOSITY TEXT: AT 40 C, CST: 460.0, AT 100 C, CST: 31.7.

SECTION 9 - OTHER INFORMATION: DROP POINT C (F): 300 (572). PARTITION COEFFICIENT: >3.5. VOLATILE ORGANIC COMPOUND: NOT ESTABLISHED. NOTE: MOST PHYSICAL PROPERTIES FOR OIL COMPONENT. DMSO EXTRACT, IP-346 (WT%): <3, FOR MINERAL OIL ONLY. TYPICAL PHYSICAL PROPERTIES ARE GIVEN. CONSULT PRODUCT DATA SHEET FOR SPECIFIC DETAILS. FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE.

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SECTION 10: STABILITY & REACTIVITY  
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STABILITY INDICATOR: Y

STABILITY - TEXT: CONDITIONS TO AVOID: EXTREME HEAT. INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS. OXIDIZING PROPERTIES: NOT APPLICABLE.

SULFUR OXIDES. CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION INDICATOR: N

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SECTION 11: TOXICOLOGICAL INFORMATION  
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TOXICOLOGICAL DATA UNLIMITED TEXT: ACUTE TOXICOLOGY: ORAL TOXICITY (RATS): PRACTICALLY NON-TOXIC (LD50: GREATER THAN 2000 MG/KG). BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS. DERMAL TOXICITY (RABBITS): PRACTICALLY NON-TOXIC (LD50; GREATER THAN 2000 MG/KG). BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS. INHALATION TOXICITY (RATS): NOT APPLICABLE. HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING, USE, OR MISUSE OF THIS PRODUCT. EYE IRRITATION (RABBITS): PRACTICALLY NON-IRRITATING. (DRAIZE SCORE: 0 OR COMPONENTS. SKIN IRRITATION (RABBITS): PRACTICALLY NON-IRRITATING. (PRIMARY IRRITATION INDEX: 0.5 OR LESS). BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS. SUBCHRONIC TOXICOLOGY (SUMMARY): REPRESENTATIVE MOBIL FORMULATIONS HAVE BEEN TESTED AT THE MOBIL ENVIRONMENTAL AND HEALTH SCIENCES LABORATORY BY DERMAL APPLICATIONS TO RATS 5 DAYS/WEEK FOR 90 DAYS AT DOSES SIGNIFICANTLY HIGHER THAN THOSE EXPECTED DURING NORMAL INDUSTRIAL EXPOSURE. EXTENSIVE EVALUATIONS, INCLUDING MICROSCOPIC EXAMINATION OF INTERNAL ORGANS AND CLINICAL CHEMISTRY OF BODY FLUIDS, SHOWED NO ADVERSE EFFECTS. REPRODUCTIVE TOXICOLOGY (SUMMARY): DERMAL EXPOSURE OF PREGNANT RATS TO REPRESENTATIVE FORMULATIONS DID NOT CAUSE ADVERSE EFFECTS IN EITHER THE MOTHERS OR THEIR OFFSPRING. SENSITIZATION (SUMMARY): REPRESENTATIVE MOBIL FORMULATIONS HAVE NOT CAUSED SKIN SENSITIZATION IN GUINEA PIGS.

CARCINOGENICITY: CHRONIC TOXICOLOGY (SUMMARY): THE BASE OILS IN THIS PRODUCT ARE SEVERELY SOLVENT REFINED AND/OR SEVERELY HYDROTREATED. EVIDENCE OF CARCINOGENIC EFFECTS. THESE RESULTS ARE CONFIRMED ON A CONTINUING BASIS USING VARIOUS SCREENING METHODS SUCH AS THE MOBIL MODIFIED AMES TEST AND IP-346.

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#### SECTION 12: ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: ENVIRONMENTAL FATE AND EFFECTS: THIS ENVIRONMENTAL ASSESSMENT WAS CONDUCTED USING INFORMATION ON THE INDIVIDUAL COMPONENTS AS NO TEST DATA WAS AVAILABLE FOR THIS SPECIFIC FORMULATION. THIS PRODUCT IS EXPECTED TO BE INHERENTLY BIODEGRADABLE, AS THE PRINCIPAL COMPONENTS HAVE BEEN SHOWN TO DEGRADE AT SLOW TO MODERATE RATES. THE MAJOR COMPONENTS IN THE FORMULATION SHOW NO AQUATIC TOXICITY AT 1000 MG/L LOADING, THEREFORE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT ARE NOT EXPECTED. ENVIRONMENTAL PRECAUTIONS: PREVENT LIQUID FROM ENTERING SEWERS, WATER SOURCES OR LOW LYING AREAS; SOIL/VEGETATION.

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#### SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: PRODUCT IS SUITABLE FOR BURNING IN AN ENCLOSED, CONTROLLED BURNER FOR FUEL VALUE. SUCH BURNING MAY BE LIMITED PURSUANT TO THE RESOURCE CONSERVATION AND RECOVERY ACT. IN ADDITION, THE PRODUCT IS SUITABLE FOR PROCESSING BY AN APPROVED RECYCLING FACILITY OR CAN BE DISPOSED OF AT AN APPROPRIATE GOVERNMENT WASTE DISPOSAL FACILITY. USE OF THESE METHODS IS SUBJECT TO USER COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS AND CONSIDERATION OF PRODUCT CHARACTERISTICS AT TIME OF DISPOSAL.

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#### SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION: USA DOT: NOT REGULATED BY USA DOT.

SECTION 14 - OTHER INFORMATION: RID/ADR: NOT REGULATED BY RID/ADR. IMO: NOT REGULATED BY IMO. IATA: NOT REGULATED BY IATA.

TDG CLASSIFICATION: NON-REGULATED

TDG SHIPPING NAME: N/R

TDG UN NUMBER: N/R

TDG HAZARD CLASS: N/R

TDG PACKING GROUP: N/R

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#### SECTION 15: REGULATORY INFORMATION

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SECTION 15 - OTHER INFORMATION: EU LABELING: PRODUCT IS NOT DANGEROUS AS DEFINED BY THE EUROPEAN UNION DANGEROUS SUBSTANCES/PREPARATIONS ALL COMPONENTS COMPLY WITH TSCA, EINECS/ELINCS, AICS, METI, DSL, KOREA AND PHILLIPINES. U.S. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III: THIS PRODUCT CONTAINS NO EXTREMELY HAZARDOUS SUBSTANCES. SARA (311/312) REPORTABLE HAZARD CATEGORIES: NONE. THIS PRODUCT CONTAINS NO CHEMICALS SUBJECT TO THE SUPPLIER NOTIFICATION REQUIREMENTS OF SARA (313) TOXIC RELEASE PROGRAM. THIS PRODUCT HAS BEEN AUTHORIZED BY USDA FOR USE UNDER THE FOLLOWING CATEGORY: THIS PRODUCT IS ACCEPTABLE AS A LUBRICANT WHERE THERE IS NO POSSIBILITY OF FOOD CONTACT (COMPLIES WITH EARLIER USDA GUIDELINES FOR H-2 LUBRICANT USE). THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE FOLLOWING LISTS: 56-81-5: IL RTK, LA RTK, PA RTK, RI RTK. 7440-66-6: 15337-18-5, 68953-58-2: MI 293.

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SECTION 16: OTHER INFORMATION  
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POSE POTENTIAL HUMAN HEALTH RISKS WHICH MAY VARY FROM PERSON TO PERSON. INFORMATION PROVIDED ON THIS MSDS REFLECTS INTENDED USE. THIS PRODUCT SHOULD NOT BE USED FOR OTHER APPLICATIONS. IN ANY CASE, THE FOLLOWING ADVICE SHOULD BE CONSIDERED: INDUSTRIAL LABEL: UNDER NORMAL CONDITIONS OF INTENDED USE, THIS PRODUCT DOES NOT POSE A RISK TO HEALTH. EXCESSIVE EXPOSURE MAY RESULT IN EYE, SKIN OR RESPIRATORY IRRITATION. ALWAYS OBSERVE GOOD HYGIENE MEASURES. FIRST AID: WASH SKIN WITH SOAP AND WATER. FLUSH EYES WITH WATER. IF OVERCOME BY FUMES OR VAPOR, REMOVE TO FRESH AIR. IF INGESTED DO NOT INDUCE VOMITING. IF SYMPTOMS PERSIST SEEK MEDICAL ASSISTANCE. READ AND UNDERSTAND THE MSDS BEFORE USING THIS PRODUCT.

RCRA HAZARDOUS WASTE NUMBER TEXT: PRODUCT IS SUITABLE FOR BURNING IN AN ENCLOSED, CONTROLLED BURNER FOR FUEL VALUE. SUCH BURNING MAY BE LIMITED PURSUANT TO THE RESOURCE CONSERVATION AND RECOVERY ACT. RCRA INFORMATION: THE UNUSED PRODUCT, IN OUR OPINION, IS NOT SPECIFICALLY FORMULATED TO CONTAIN MATERIALS WHICH ARE LISTED HAZARDOUS WASTES. IT DOES NOT EXHIBIT THE HAZARDOUS CHARACTERISTICS OF IGNITABILITY, CORROSIVITY OR REACTIVITY. THE UNUSED PRODUCT IS NOT FORMULATED WITH SUBSTANCES COVERED BY THE TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP). HOWEVER, USED PRODUCT MAY BE REGULATED.

\*\*\* END OF DATA SHEET \*\*\*