

ITEM: 1MUC1 - Mobilgrease XHP 222 Grease 13.7

SDS: D6071

ORDER: 0163230665

LP NUMBER: U876361142

SAFETY DATA SHEET (SDS)

This SDS should be attached or kept with the respective product with which it is associated.

SDS - D6071

Associated Grainger Items
1MRG8, 1MUC1, 1MUC2, 1YMW5, 1YMX2, 1YMX9, 6Y788

EXXONMOBIL

PRODUCT NAME: MOBILGREASE XHP 222

REVISION DATE: 13 MAY 2015

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT:

PRODUCT NAME: MOBILGREASE XHP 222

PRODUCT DESCRIPTION: BASE OIL AND ADDITIVES

PRODUCT CODE: 2015A0202530, 2015A0202530, 530436-00, 97E898

INTENDED USE: GREASE

COMPANY IDENTIFICATION:

SUPPLIER:
EXXON MOBIL CORPORATION
22777 SPRINGWOODS VILLAGE PARKWAY
SPRING, TX. 77389
USA

24 HOUR HEALTH EMERGENCY: 609-737-4411

TRANSPORTATION EMERGENCY PHONE: 800-424-9300 OR 703-527-3887 CHEMTREC

PRODUCT TECHNICAL INFORMATION: 800-662-4525

MSDS INTERNET ADDRESS:
HTTP://WWW.EXXON.COM
HTTP://WWW.MOBIL.COM

SECTION 2 HAZARDS IDENTIFICATION

THIS MATERIAL IS NOT HAZARDOUS ACCORDING TO REGULATORY GUIDELINES
(SEE (M)SDS SECTION 15).

OTHER HAZARD INFORMATION:

HAZARD NOT OTHERWISE CLASSIFIED (HNOC):
NONE AS DEFINED UNDER 29 CFR 1910.1200.

PHYSICAL / CHEMICAL HAZARDS: NO SIGNIFICANT HAZARDS.

HEALTH HAZARDS:
HIGH-PRESSURE INJECTION UNDER SKIN MAY CAUSE SERIOUS DAMAGE.
EXCESSIVE EXPOSURE MAY RESULT IN EYE, SKIN, OR RESPIRATORY IRRITATION.

ENVIRONMENTAL HAZARDS: NO SIGNIFICANT HAZARDS.

NFPA HAZARD ID:
HEALTH 0
FLAMMABILITY 1
REACTIVITY 0

HMIS HAZARD ID:
HEALTH 0
FLAMMABILITY 1
REACTIVITY 0

NOTE:
THIS MATERIAL SHOULD NOT BE USED FOR ANY OTHER PURPOSE THAN THE INTENDED
USE IN SECTION 1 WITHOUT EXPERT ADVICE. HEALTH STUDIES HAVE SHOWN THAT
CHEMICAL EXPOSURE MAY CAUSE POTENTIAL HUMAN HEALTH RISKS WHICH MAY VARY
FROM PERSON TO PERSON.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

THIS MATERIAL IS DEFINED AS A MIXTURE.

HAZARDOUS SUBSTANCE(S) OR COMPLEX SUBSTANCE(S) REQUIRED FOR DISCLOSURE:

NAME	CAS#	CONCENTRATION*	GHS HAZARD CODES
BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE	68411-46-1	1 - <5%	H402, H412
ZINC DIALKYL DITHIOPHOSPHATE	68457-79-4	1 - <2.5%	H315, H318, H401, H411
ZINC DINONYLNAPHTHALENE SULFONATE	28016-00-4	0.1 - <1%	H315, H319 (2A), H317

* ALL CONCENTRATIONS ARE PERCENT BY WEIGHT UNLESS MATERIAL IS A GAS. GAS
CONCENTRATIONS ARE IN PERCENT BY VOLUME.

AS PER PARAGRAPH (I) OF 29 CFR 1910.1200, FORMULATION IS CONSIDERED A TRADE
SECRET AND SPECIFIC CHEMICAL IDENTITY AND EXACT PERCENTAGE (CONCENTRATION)
OF COMPOSITION MAY HAVE BEEN WITHHELD. SPECIFIC CHEMICAL IDENTITY AND EXACT
PERCENTAGE COMPOSITION WILL BE PROVIDED TO HEALTH PROFESSIONALS, EMPLOYEES,
OR DESIGNATED REPRESENTATIVES IN ACCORDANCE WITH APPLICABLE PROVISIONS OF
PARAGRAPH (I).

SECTION 4 FIRST AID MEASURES

INHALATION:
UNDER NORMAL CONDITIONS OF INTENDED USE, THIS MATERIAL IS NOT EXPECTED TO
BE AN INHALATION HAZARD.

SKIN CONTACT:
WASH CONTACT AREAS WITH SOAP AND WATER. IF PRODUCT IS INJECTED INTO OR
UNDER THE SKIN, OR INTO ANY PART OF THE BODY, REGARDLESS OF THE APPEARANCE
OF THE WOUND OR ITS SIZE, THE INDIVIDUAL SHOULD BE EVALUATED IMMEDIATELY
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.

EYE CONTACT:
FLUSH THOROUGHLY WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ASSISTANCE.

INGESTION:
FIRST AID IS NORMALLY NOT REQUIRED. SEEK MEDICAL ATTENTION IF DISCOMFORT
OCCURS.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

APPROPRIATE EXTINGUISHING MEDIA:
USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE (CO2) TO EXTINGUISH
FLAMES.

INAPPROPRIATE EXTINGUISHING MEDIA: STRAIGHT STREAMS OF WATER

FIRE FIGHTING:

FIRE FIGHTING INSTRUCTIONS:
EVACUATE AREA. PREVENT RUNOFF FROM FIRE CONTROL OR DILUTION FROM ENTERING
STREAMS, SEWERS, OR DRINKING WATER SUPPLY. FIREFIGHTERS SHOULD USE STANDARD
PROTECTIVE EQUIPMENT AND IN ENCLOSED SPACES, SELF-CONTAINED BREATHING
APPARATUS (SCBA). USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO
PROTECT PERSONNEL.

HAZARDOUS COMBUSTION PRODUCTS:
ALDEHYDES, OXIDES OF CARBON, SULFUR OXIDES, SMOKE, FUME, INCOMPLETE
COMBUSTION PRODUCTS

FLAMMABILITY PROPERTIES:

FLASH POINT [METHOD]:
>204 DEG. C (400 DEG. F) [EST. FOR OIL, ASTM D-92 (COC)]

FLAMMABLE LIMITS (APPROXIMATE VOLUME % IN AIR):
LEL: N/D
UEL: N/D

AUTOIGNITION TEMPERATURE: N/D

SECTION 6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES:
IN THE EVENT OF A SPILL OR ACCIDENTAL RELEASE, NOTIFY RELEVANT AUTHORITIES
IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. US REGULATIONS REQUIRE
REPORTING RELEASES OF THIS MATERIAL TO THE ENVIRONMENT WHICH EXCEED THE
APPLICABLE REPORTABLE QUANTITY OR OIL SPILLS WHICH COULD REACH ANY WATERWAY
INCLUDING INTERMITTENT DRY CREEKS. THE NATIONAL RESPONSE CENTER CAN BE
REACHED AT (800) 424-8802.

PROTECTIVE MEASURES:
AVOID CONTACT WITH SPILLED MATERIAL. SEE SECTION 5 FOR FIRE FIGHTING
INFORMATION. SEE THE HAZARD IDENTIFICATION SECTION FOR SIGNIFICANT HAZARDS.
SEE SECTION 4 FOR FIRST AID ADVICE. SEE SECTION 8 FOR ADVICE ON THE MINIMUM
REQUIREMENTS FOR PERSONAL PROTECTIVE EQUIPMENT. ADDITIONAL PROTECTIVE
MEASURES MAY BE NECESSARY, DEPENDING ON THE SPECIFIC CIRCUMSTANCES AND/OR
THE EXPERT JUDGMENT OF THE EMERGENCY RESPONDERS.

FOR EMERGENCY RESPONDERS:
RESPIRATORY PROTECTION:
RESPIRATORY PROTECTION WILL BE NECESSARY ONLY IN SPECIAL CASES, E.G.,
FORMATION OF MISTS. HALF-FACE OR FULL-FACE RESPIRATOR WITH FILTER(S) FOR
DUST/ORGANIC VAPOR OR SELF-CONTAINED BREATHING APPARATUS (SCBA) CAN BE USED
DEPENDING ON THE SIZE OF SPILL AND POTENTIAL LEVEL OF EXPOSURE. IF THE
EXPOSURE CANNOT BE COMPLETELY CHARACTERIZED OR AN OXYGEN DEFICIENT
ATMOSPHERE IS POSSIBLE OR ANTICIPATED, SCBA IS RECOMMENDED. WORK GLOVES
THAT ARE RESISTANT TO HYDROCARBONS ARE RECOMMENDED. GLOVES MADE OF
POLYVINYL ACETATE (PVA) ARE NOT WATER-RESISTANT AND ARE NOT SUITABLE FOR
EMERGENCY USE. CHEMICAL GOGGLES ARE RECOMMENDED IF SPLASHES OR CONTACT WITH
EYES IS POSSIBLE.

SMALL SPILLS: NORMAL ANTISTATIC WORK CLOTHES ARE USUALLY ADEQUATE.

LARGE SPILLS:
FULL BODY SUIT OF CHEMICAL RESISTANT, ANTISTATIC MATERIAL IS RECOMMENDED.

SPILL MANAGEMENT:

LAND SPILL:
ALLOW SPILLED MATERIAL TO SOLIDIFY AND SCRAPE UP WITH SHOVELS INTO A
SUITABLE CONTAINER FOR RECYCLE OR DISPOSAL. SCRAPE UP SPILLED MATERIAL WITH
SHOVELS INTO A SUITABLE CONTAINER FOR RECYCLE OR DISPOSAL.

WATER SPILL:
STOP LEAK IF YOU CAN DO IT WITHOUT RISK. CONFINE THE SPILL IMMEDIATELY WITH
BOOMS. WARN OTHER SHIPPING. SKIM FROM SURFACE.

WATER SPILL AND LAND SPILL RECOMMENDATIONS ARE BASED ON THE MOST LIKELY
SPILL SCENARIO FOR THIS MATERIAL; HOWEVER, GEOGRAPHIC CONDITIONS, WIND,
TEMPERATURE, (AND IN THE CASE OF A WATER SPILL) WAVE AND CURRENT DIRECTION
AND SPEED MAY GREATLY INFLUENCE THE APPROPRIATE ACTION TO BE TAKEN. FOR
THIS REASON, LOCAL EXPERTS SHOULD BE CONSULTED.

NOTE: LOCAL REGULATIONS MAY PRESCRIBE OR LIMIT ACTION TO BE TAKEN.

ENVIRONMENTAL PRECAUTIONS:
PREVENT ENTRY INTO WATERWAYS, SEWERS, BASEMENTS OR CONFINED AREAS.

SECTION 7 HANDLING AND STORAGE

HANDLING: PREVENT SMALL SPILLS AND LEAKAGE TO AVOID SLIP HAZARD.
STATIC ACCUMULATOR: THIS MATERIAL IS NOT A STATIC ACCUMULATOR.
STORAGE: DO NOT STORE IN OPEN OR UNLABELLED CONTAINERS.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

NOTE:
LIMITS/STANDARDS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.
NO BIOLOGICAL LIMITS ALLOCATED.

ENGINEERING CONTROLS:
THE LEVEL OF PROTECTION AND TYPES OF CONTROLS NECESSARY WILL VARY DEPENDING UPON POTENTIAL EXPOSURE CONDITIONS.
CONTROL MEASURES TO CONSIDER:
NO SPECIAL REQUIREMENTS UNDER ORDINARY CONDITIONS OF USE AND WITH ADEQUATE VENTILATION.

PERSONAL PROTECTION:
PERSONAL PROTECTIVE EQUIPMENT SELECTIONS VARY BASED ON POTENTIAL EXPOSURE CONDITIONS SUCH AS APPLICATIONS, HANDLING PRACTICES, CONCENTRATION AND VENTILATION. INFORMATION ON THE SELECTION OF PROTECTIVE EQUIPMENT FOR USE WITH THIS MATERIAL, AS PROVIDED BELOW, IS BASED UPON INTENDED, NORMAL USAGE.

RESPIRATORY PROTECTION:
IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONTAMINANT CONCENTRATIONS AT A LEVEL WHICH IS ADEQUATE TO PROTECT WORKER HEALTH, AN APPROVED RESPIRATOR MAY BE APPROPRIATE. RESPIRATOR SELECTION, USE, AND MAINTENANCE MUST BE IN ACCORDANCE WITH REGULATORY REQUIREMENTS, IF APPLICABLE.
TYPES OF RESPIRATORS TO BE CONSIDERED FOR THIS MATERIAL INCLUDE:
NO PROTECTION IS ORDINARILY REQUIRED UNDER NORMAL CONDITIONS OF USE AND WITH ADEQUATE VENTILATION.

FOR HIGH AIRBORNE CONCENTRATIONS, USE AN APPROVED SUPPLIED-AIR RESPIRATOR, OPERATED IN POSITIVE PRESSURE MODE. SUPPLIED AIR RESPIRATORS WITH AN ESCAPE BOTTLE MAY BE APPROPRIATE WHEN OXYGEN LEVELS ARE INADEQUATE, GAS/VAPOR WARNING PROPERTIES ARE POOR, OR IF AIR PURIFYING FILTER CAPACITY/RATING MAY BE EXCEEDED.

HAND PROTECTION:
ANY SPECIFIC GLOVE INFORMATION PROVIDED IS BASED ON PUBLISHED LITERATURE AND GLOVE MANUFACTURER DATA. GLOVE SUITABILITY AND BREAKTHROUGH TIME WILL DIFFER DEPENDING ON THE SPECIFIC USE CONDITIONS. CONTACT THE GLOVE MANUFACTURER FOR SPECIFIC ADVICE ON GLOVE SELECTION AND BREAKTHROUGH TIMES FOR YOUR USE CONDITIONS. INSPECT AND REPLACE WORN OR DAMAGED GLOVES.
THE TYPES OF GLOVES TO BE CONSIDERED FOR THIS MATERIAL INCLUDE:
NO PROTECTION IS ORDINARILY REQUIRED UNDER NORMAL CONDITIONS OF USE.

EYE PROTECTION:
IF CONTACT IS LIKELY, SAFETY GLASSES WITH SIDE SHIELDS ARE RECOMMENDED.

SKIN AND BODY PROTECTION:
ANY SPECIFIC CLOTHING INFORMATION PROVIDED IS BASED ON PUBLISHED LITERATURE OR MANUFACTURER DATA.
THE TYPES OF CLOTHING TO BE CONSIDERED FOR THIS MATERIAL INCLUDE:
NO SKIN PROTECTION IS ORDINARILY REQUIRED UNDER NORMAL CONDITIONS OF USE. IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE PRACTICES, PRECAUTIONS SHOULD BE TAKEN TO AVOID SKIN CONTACT.

SPECIFIC HYGIENE MEASURES:
ALWAYS OBSERVE GOOD PERSONAL HYGIENE MEASURES, SUCH AS WASHING AFTER HANDLING THE MATERIAL AND BEFORE EATING, DRINKING, AND/OR SMOKING.
ROUTINELY WASH WORK CLOTHING AND PROTECTIVE EQUIPMENT TO REMOVE CONTAMINANTS. DISCARD CONTAMINATED CLOTHING AND FOOTWEAR THAT CANNOT BE CLEANED. PRACTICE GOOD HOUSEKEEPING.

ENVIRONMENTAL CONTROLS:
COMPLY WITH APPLICABLE ENVIRONMENTAL REGULATIONS LIMITING DISCHARGE TO AIR, WATER AND SOIL. PROTECT THE ENVIRONMENT BY APPLYING APPROPRIATE CONTROL MEASURES TO PREVENT OR LIMIT EMISSIONS.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

NOTE:
PHYSICAL AND CHEMICAL PROPERTIES ARE PROVIDED FOR SAFETY, HEALTH AND ENVIRONMENTAL CONSIDERATIONS ONLY AND MAY NOT FULLY REPRESENT PRODUCT SPECIFICATIONS. CONTACT THE SUPPLIER FOR ADDITIONAL INFORMATION.

GENERAL INFORMATION:

PHYSICAL STATE: SOLID

FORM: SEMI-FLUID

COLOR: DARK BLUE

ODOR: CHARACTERISTIC

ODOR THRESHOLD: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION:

RELATIVE DENSITY (AT 15 DEG. C): 0.88

FLAMMABILITY (SOLID, GAS): N/A

FLASH POINT [METHOD]:
>204 DEG. C (400 DEG. F) [EST. FOR OIL, ASTM D-92 (COC)]

FLAMMABLE LIMITS (APPROXIMATE VOLUME % IN AIR):
LEL: N/D
UEL: N/D

AUTOIGNITION TEMPERATURE: N/D

BOILING POINT / RANGE: >316 DEG. C (600 DEG. F)

DECOMPOSITION TEMPERATURE: N/D

VAPOR DENSITY (AIR = 1): N/D

VAPOR PRESSURE: <0.013 KPA (0.1 MMHg) AT 20 DEG. C

EVAPORATION RATE (N-BUTYL ACETATE = 1): N/D

PH: N/A

LOG POW (N-OCTANOL/WATER PARTITION COEFFICIENT): >3.5

SOLUBILITY IN WATER: NEGLIGIBLE

VISCOSITY:
>200 CST (200 MM2/SEC) AT 40 DEG. C
>16 CST (16 MM2/SEC) AT 100 DEG. C

OXIDIZING PROPERTIES: SEE HAZARDS IDENTIFICATION SECTION.

OTHER INFORMATION:

FREEZING POINT: N/D

MELTING POINT: >260 DEG. C (500 DEG. F)

DMSO EXTRACT (MINERAL OIL ONLY), IP-346: <3%WT

NOTE:
MOST PHYSICAL PROPERTIES ABOVE ARE FOR THE OIL COMPONENT IN THE MATERIAL.

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: SEE SUB-SECTIONS BELOW.

STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID: EXCESSIVE HEAT. HIGH ENERGY SOURCES OF IGNITION.

MATERIALS TO AVOID: STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS:
MATERIAL DOES NOT DECOMPOSE AT AMBIENT TEMPERATURES.

POSSIBILITY OF HAZARDOUS REACTIONS:
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

SECTION 11 TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS:

HAZARD CLASS CONCLUSION / REMARKS

INHALATION:

ACUTE TOXICITY: MINIMALLY TOXIC. BASED ON ASSESSMENT
NO END POINT DATA FOR MATERIAL. OF THE COMPONENTS.

IRRITATION: NEGLIGIBLE HAZARD AT AMBIENT/NORMAL
NO END POINT DATA FOR MATERIAL. HANDLING TEMPERATURES.

INGESTION:

ACUTE TOXICITY: MINIMALLY TOXIC. BASED ON ASSESSMENT
NO END POINT DATA FOR MATERIAL. OF THE COMPONENTS.

SKIN:

ACUTE TOXICITY: MINIMALLY TOXIC. BASED ON ASSESSMENT
NO END POINT DATA FOR MATERIAL. OF THE COMPONENTS.

SKIN CORROSION/IRRITATION: NEGLIGIBLE IRRITATION TO SKIN AT
NO END POINT DATA FOR MATERIAL. AMBIENT TEMPERATURES. BASED ON
ASSESSMENT OF THE COMPONENTS.

EYE:

SERIOUS EYE DAMAGE/IRRITATION: MAY CAUSE MILD, SHORT-LASTING
NO END POINT DATA FOR MATERIAL. DISCOMFORT TO EYES. BASED ON
ASSESSMENT OF THE COMPONENTS.

SENSITIZATION:

RESPIRATORY SENSITIZATION: NOT EXPECTED TO BE A RESPIRATORY
NO END POINT DATA FOR MATERIAL. SENSITIZER.

SKIN SENSITIZATION: NOT EXPECTED TO BE A SKIN
NO END POINT DATA FOR MATERIAL. SENSITIZER. BASED ON ASSESSMENT OF
THE COMPONENTS.

ASPIRATION: DATA AVAILABLE. NOT EXPECTED TO BE AN ASPIRATION
HAZARD. BASED ON PHYSICO-CHEMICAL
PROPERTIES OF THE MATERIAL.

GERM CELL MUTAGENICITY: NOT EXPECTED TO BE A GERM CELL
NO END POINT DATA FOR MATERIAL. MUTAGEN. BASED ON ASSESSMENT OF
THE COMPONENTS.

CARCINOGENICITY: NOT EXPECTED TO CAUSE CANCER. BASED
NO END POINT DATA FOR MATERIAL. ON ASSESSMENT OF THE COMPONENTS.

REPRODUCTIVE TOXICITY: NOT EXPECTED TO BE A REPRODUCTIVE
NO END POINT DATA FOR MATERIAL. TOXICANT. BASED ON ASSESSMENT OF
THE COMPONENTS.

LACTATION: NOT EXPECTED TO CAUSE HARM TO
NO END POINT DATA FOR MATERIAL. BREAST-FED CHILDREN.

SPECIFIC TARGET ORGAN TOXICITY (STOT):

SINGLE EXPOSURE: NOT EXPECTED TO CAUSE ORGAN DAMAGE
NO END POINT DATA FOR MATERIAL. FROM A SINGLE EXPOSURE.

REPEATED EXPOSURE: NOT EXPECTED TO CAUSE ORGAN DAMAGE
NO END POINT DATA FOR MATERIAL. FROM PROLONGED OR REPEATED EXPOSURE.
BASED ON ASSESSMENT OF THE
COMPONENTS.

OTHER INFORMATION:

CONTAINS:

BASE OIL SEVERELY REFINED:
NOT CARCINOGENIC IN ANIMAL STUDIES. REPRESENTATIVE MATERIAL PASSES IP-346,
MODIFIED AMES TEST, AND/OR OTHER SCREENING TESTS. DERMAL AND INHALATION
STUDIES SHOWED MINIMAL EFFECTS; LUNG NON-SPECIFIC INFILTRATION OF IMMUNE
CELLS, OIL DEPOSITION AND MINIMAL GRANULOMA FORMATION. NOT SENSITIZING IN
TEST ANIMALS.

C.I. SOLVENT BLUE:
POSITIVE IN THE AMES AND MOUSE LYMPHOMA MUTAGENICITY ASSAY.

THE FOLLOWING INGREDIENTS ARE CITED ON THE LISTS BELOW: NONE.

REGULATORY LISTS SEARCHED:

1 = NTP CARC
2 = NTP SUS
3 = IARC 1
4 = IARC 2A
5 = IARC 2B
6 = OSHA CARC

SECTION 12 ECOLOGICAL INFORMATION

THE INFORMATION GIVEN IS BASED ON DATA AVAILABLE FOR THE MATERIAL, THE
COMPONENTS OF THE MATERIAL, AND SIMILAR MATERIALS.

ECOTOXICITY:
MATERIAL: NOT EXPECTED TO BE HARMFUL TO AQUATIC ORGANISMS.

MOBILITY:
BASE OIL COMPONENT:
LOW SOLUBILITY AND FLOATS AND IS EXPECTED TO MIGRATE FROM WATER TO THE
LAND. EXPECTED TO PARTITION TO SEDIMENT AND WASTEWATER SOLIDS.

PERSISTENCE AND DEGRADABILITY:

BIODEGRADATION:
BASE OIL COMPONENT: EXPECTED TO BE INHERENTLY BIODEGRADABLE

BIOACCUMULATION POTENTIAL:
BASE OIL COMPONENT:
HAS THE POTENTIAL TO BIOACCUMULATE, HOWEVER METABOLISM OR PHYSICAL
PROPERTIES MAY REDUCE THE BIOCONCENTRATION OR LIMIT BIOAVAILABILITY.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL RECOMMENDATIONS BASED ON MATERIAL AS SUPPLIED. DISPOSAL MUST BE
IN ACCORDANCE WITH CURRENT APPLICABLE LAWS AND REGULATIONS, AND MATERIAL
CHARACTERISTICS AT TIME OF DISPOSAL.

DISPOSAL RECOMMENDATIONS:
PRODUCT IS SUITABLE FOR BURNING IN AN ENCLOSED CONTROLLED BURNER FOR FUEL
VALUE OR DISPOSAL BY SUPERVISED INCINERATION AT VERY HIGH TEMPERATURES TO
PREVENT FORMATION OF UNDESIRABLE COMBUSTION PRODUCTS.

REGULATORY DISPOSAL INFORMATION:

RCRA INFORMATION:
THE UNUSED PRODUCT, IN OUR OPINION, IS NOT SPECIFICALLY LISTED BY THE EPA
AS A HAZARDOUS WASTE (40 CFR, PART 261D), NOR IS IT FORMULATED TO CONTAIN
MATERIALS WHICH ARE LISTED AS HAZARDOUS WASTES. IT DOES NOT EXHIBIT THE
HAZARDOUS CHARACTERISTICS OF IGNITABILITY, CORROSIVITY OR REACTIVITY
AND IS NOT FORMULATED WITH CONTAMINANTS AS DETERMINED BY THE TOXICITY
CHARACTERISTIC LEACHING PROCEDURE (TCLP). HOWEVER, USED PRODUCT MAY BE
REGULATED.

EMPTY CONTAINER WARNING:
EMPTY CONTAINER WARNING (WHERE APPLICABLE):
EMPTY CONTAINERS MAY CONTAIN RESIDUE AND CAN BE DANGEROUS. DO NOT ATTEMPT
TO REFILL OR CLEAN CONTAINERS WITHOUT PROPER INSTRUCTIONS. EMPTY DRUMS
SHOULD BE COMPLETELY DRAINED AND SAFELY STORED UNTIL APPROPRIATELY
RECONDITIONED OR DISPOSED. EMPTY CONTAINERS SHOULD BE TAKEN FOR RECYCLING,
RECOVERY, OR DISPOSAL THROUGH SUITABLY QUALIFIED OR LICENSED CONTRACTOR AND
IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS. 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.

SECTION 14 TRANSPORT INFORMATION

LAND (DOT): NOT REGULATED FOR LAND TRANSPORT
LAND (TDG): NOT REGULATED FOR LAND TRANSPORT
SEA (IMDG): NOT REGULATED FOR SEA TRANSPORT ACCORDING TO IMDG-CODE
MARINE POLLUTANT: NO
AIR (IATA): NOT REGULATED FOR AIR TRANSPORT

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD:
THIS MATERIAL IS NOT CONSIDERED HAZARDOUS IN ACCORDANCE WITH OSHA HAZCOM
2012, 29 CFR 1910.1200.

LISTED OR EXEMPT FROM LISTING/NOTIFICATION ON THE FOLLOWING CHEMICAL
INVENTORIES: AICS, IECSC, PICCS, TSCA

EPSCA SECTION 302:
THIS MATERIAL CONTAINS NO EXTREMELY HAZARDOUS SUBSTANCES.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: NONE.

SARA (313) TOXIC RELEASE INVENTORY:

CHEMICAL NAME	CAS NUMBER	TYPICAL VALUE
ZINC DIALKYL DITHIOPHOSPHATE	68457-79-4	1 - <2.5%

THE FOLLOWING INGREDIENTS ARE CITED ON THE LISTS BELOW:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
XYLENES	1330-20-7	15

ZINC DIALKYL DITHIOPHOSPHATE 68457-79-4 13, 15, 17, 19

ZINC DINONYLNAPHTHALENE SULFONATE 28016-00-4 15

REGULATORY LISTS SEARCHED

1 = ACGIH ALL
2 = ACGIH A1
3 = ACGIH A2
4 = OSHA Z
5 = TSCA 4
6 = TSCA 5A2
7 = TSCA 5E
8 = TSCA 6
9 = TSCA 12B
10 = CA P65 CARC
11 = CA P65 REPRO
12 = CA RTK
13 = IL RTK
14 = LA RTK
15 = MI 293
16 = MN RTK
17 = NJ RTK
18 = PA RTK
19 = RI RTK

CODE KEY:
CARC=CARCINOGEN
REPRO=REPRODUCTIVE

SECTION 16 OTHER INFORMATION

N/D = NOT DETERMINED
N/A = NOT APPLICABLE

KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (FOR INFORMATION
ONLY):

H315: CAUSES SKIN IRRITATION; SKIN CORR/IRRITATION, CAT 2

H317: MAY CAUSE ALLERGIC SKIN REACTION; SKIN SENSITIZATION, CAT 1

H318: CAUSES SERIOUS EYE DAMAGE; SERIOUS EYE DAMAGE/IRR, CAT 1

H319(2A): CAUSES SERIOUS EYE IRRITATION; SERIOUS EYE DAMAGE/IRR, CAT 2A

H401: TOXIC TO AQUATIC LIFE; ACUTE ENV TOX, CAT 2

H402: HARMFUL TO AQUATIC LIFE; ACUTE ENV TOX, CAT 3

H411:
TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS; CHRONIC ENV TOX, CAT 2

H412:
HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS; CHRONIC ENV TOX, CAT 3

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:
UPDATES MADE IN ACCORDANCE WITH IMPLEMENTATION OF GHS REQUIREMENTS.

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INTENDED USE. IF BUYER REPACKAGES THIS PRODUCT, IT IS THE USER'S
RESPONSIBILITY TO INSURE PROPER HEALTH, SAFETY AND OTHER NECESSARY
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INTERNAL USE ONLY:
MHC: 0B, 0B, 0, 0, 0, 0
PPEC: A

DGN: 2006153XUS (1023053)

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