GRAINGER
Common Name: ALMO 525
Manufacturer: EXXON MOBIL
MSDS Revision Date: 7/19/2007

Grainger Item Number(s): 4ZF22
Manufacturer Model Number(s):

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EXXON MOBIL

PRODUCT NAME: MOBIL ALMO 525

REVISION DATE: 19 JUL 2007

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT:
PRODUCT NAME: MOBIL ALMO 525
PRODUCT DESCRIPTION: BASE OIL AND ADDITIVES
PRODUCT CODE: 603183-00, 970924
INTENDED USE: LUBRICANT
COMPANY IDENTIFICATION:

SUPPLIER:
EXXON MOBIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA. 22037
USA
24 HOUR HEALTH EMERGENCY: 609-737-4411
TRANSPORTATION EMERGENCY PHONE: 800-424-9300
EXXON MOBIL TRANSPORTATION NO.: 281-834-3296
MSDS REQUESTS: 713-613-3661

PRODUCT TECHNICAL INFORMATION:
800-662-4525
800-947-9147

MSDS INTERNET ADDRESS:
HTTP://WWW.EXXON.COM
SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS
NO REPORTABLE HAZARDOUS SUBSTANCE(S) OR COMPLEX SUBSTANCE(S).

SECTION 3 HAZARDS IDENTIFICATION
THIS MATERIAL MAY BE CONSIDERED TO BE HAZARDOUS ACCORDING TO REGULATORY
GUIDELINES (SEE (M)SDS SECTION 15).

POTENTIAL HEALTH EFFECTS:
THIS PRODUCT MAY BE USED IN CERTAIN APPLICATIONS WHERE MISTING CAN OCCUR.
EXCESSIVE EXPOSURE TO LIQUIDS AND MISTS MAY CAUSE SKIN AND EYE IRRITATION. IN
ADDITION, EXCESSIVE EXPOSURE TO MISTS MAY CAUSE RESPIRATORY IRRITATION AND
DAMAGE AND AGGRAVATE PRE-EXISTING EMPHYSEMA OR ASTHMA. LOW ORDER OF TOXICITY.
HIGH-PRESSURE INJECTION UNDER SKIN MAY CAUSE SERIOUS DAMAGE.

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 4 FIRST AID MEASURES

INHALATION:
REMOVE FROM FURTHER EXPOSURE. FOR THOSE PROVIDING ASSISTANCE, AVOID EXPOSURE
TO YOURSELF OR OTHERS. USE ADEQUATE RESPIRATORY PROTECTION. IF RESPIRATORY
IRRITATION, DIZZINESS, NAUSEA, OR UNCONSCIOUSNESS OCCURS, SEEK IMMEDIATE
MEDICAL ASSISTANCE. IF BREATHING HAS STOPPED, ASSIST VENTILATION WITH A
MECHANICAL DEVICE OR USE MOUTH-TO-MOUTH RESUSCITATION.

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.

UNUSUAL FIRE HAZARDS: PRESSURIZED MISTS MAY FORM A FLAMMABLE MIXTURE.

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

FLAMMABILITY PROPERTIES:
FLASH POINT (METHOD): >188C (370F) (ASTM D-92)
FLAMMABLE LIMITS (APPROXIMATE VOLUME % IN AIR):
LEL: 0.9
UEL: 7.0
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. 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.

SPILL MANAGEMENT:

LAND SPILL:
STOP LEAK IF YOU CAN DO IT WITHOUT RISK. RECOVER BY PUMPING OR WITH SUITABLE ABSORBENT.

WATER SPILL:
STOP LEAK IF YOU CAN DO IT WITHOUT RISK. CONFINE THE SPILL IMMEDIATELY WITH BOOMS. WARN OTHER SHIPPING. REMOVE FROM THE SURFACE BY SKIMMING OR WITH SUITABLE ABSORBENTS. SEEK THE ADVICE OF A SPECIALIST BEFORE USING DISPERSANTS.

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:

LARGE SPILLS:
DIKE FAR AHEAD OF LIQUID SPILL FOR LATER RECOVERY AND DISPOSAL. PREVENT ENTRY INTO WATERWAYS, SEWERS, BASEMENTS OR CONFINED AREAS.
SECTION 7 HANDLING AND STORAGE

HANDLING:
AVOID BREATHING MISTS OR VAPORS. PREVENT SMALL SPILLS AND LEAKAGE TO AVOID SLIP HAZARD.

STATIC ACCUMULATOR: THIS MATERIAL IS A STATIC ACCUMULATOR.

STORAGE: DO NOT STORE IN OPEN OR UNLABELLED CONTAINERS.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS/STANDARDS FOR MATERIALS THAT CAN BE FORMED WHEN HANDLING THIS PRODUCT:

WHEN MISTS / AEROSOLS CAN OCCUR, THE FOLLOWING ARE RECOMMENDED:
5 MG/M3 - ACGIH TLV
10 MG/M3 - ACGIH STEL
5 MG/M3 - OSHAL PEL.

NOTE:
LIMITS/STANDARDS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

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. RESPIRATORY SELECTION, USE, AND MAINTENANCE MUST BE IN ACCORDANCE WITH REGULATORY REQUIREMENTS, IF APPLICABLE. TYPES OF RESPIRATORS TO BE CONSIDERED FOR THIS MATERIAL INCLUDE:

PARTICULATE AIR-PURIFYING RESPIRATOR APPROVED FOR DUST / OIL MIST IS RECOMMENDED.

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. WORK CONDITIONS CAN GREATLY AFFECT GLOVE DURABILITY; 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.
CHEMICAL TYPE GOGGLES SHOULD BE WORN DURING MISTING OPERATIONS.

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: SEE SECTIONS 6, 7, 12, 13.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES ARE GIVEN BELOW. CONSULT THE SUPPLIER IN SECTION 1 FOR ADDITIONAL DATA.

GENERAL INFORMATION:

PHYSICAL STATE: LIQUID
COLOR: AMBER
ODOR: CHARACTERISTIC
ODOR THRESHOLD: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION:
RELATIVE DENSITY (AT 15 C): 0.883
FLASH POINT (METHOD): >188C (370F) (ATSM D-92)
FLAMMABLE LIMITS (APPROXIMATE VOLUME % IN AIR):
LEL: 0.9
UEL: 7.0
AUTOIGNITION TEMPERATURE: N/D
BOILING POINT / RANGE: >316C (600F)
VAPOR DENSITY (AIR=1): >2 AT 101 KPA
VAPOR PRESSURE: <0.013 KPA (0.1 MM HG) AT 20 C
EVAPORATION RATE (n-BUTYL ACETATE=1): N/D
pH: N/A
LOG POW (n-OCATNOL/WATER PARTITION COEFFICIENT): >3.5
SOLUBILITY IN WATER: NEGLIGIBLE
VISCOSITY:
46 CST (46 MM2/SEC) AT 40 C
7.3 CST (7.3 MM2/SEC) AT 100 C
OXIDIZING PROPERTIES: SEE SECTIONS 3, 15, 16.

OTHER INFORMATION:
FREEZING POINT: N/D
MELTING POINT: N/A
POUR POINT: -24 DEG. C (-11 DEG. F)
DMSO EXTRACT (MINERAL OIL ONLY), IP-346: <3 %WT

SECTION 10 STABILITY AND REACTIVITY

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.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

ACUTE TOXICITY:
ROUTE OF EXPOSURE                      CONCLUSION / REMARKS

INHALATION
TOXICITY (RAT):                        MINIMALLY TOXIC. BASED ON TEST DATA
LC50 >5000 MG/M3                       FOR STRUCTURALLY SIMILAR MATERIALS.

IRRITATION:                            ELEVATED TEMPERATURES OR MECHANICAL
NO END POINT DATA.                     ACTION MAY FORM VAPORS, MIST, OR FUMES
WHICH MAY BE IRRITATING TO THE EYES,
NOSE, THROAT, OR LUNGS. BASED ON
ASSESSMENT OF THE COMPONENTS.

INGESTION
TOXICITY (RAT):                        MINIMALLY TOXIC. BASED ON TEST DATA
LD50 >2000 MG/KG                       FOR STRUCTURALLY SIMILAR MATERIALS.

SKIN
TOXICITY (RABBIT):                     MINIMALLY TOXIC. BASED ON TEST DATA
LD50 >2000 MG/KG                       FOR STRUCTURALLY SIMILAR MATERIALS.

IRRITATION (RABBIT):
DATA AVAILABLE                         NEGLIGIBLE IRRITATION TO SKIN AT
AMBIENT TEMPERATURES. BASED ON TEST
DATA FOR STRUCTURALLY SIMILAR
MATERIALS.

EYE
IRRITATION (RABBIT):
DATA AVAILABLE.                        MAY CAUSE MILD, SHORT-LASTING
DISCOMFORT TO EYES. BASED ON TEST DATA
FOR STRUCTURALLY SIMILAR MATERIALS.

CHRONIC/OTHER EFFECTS:
FOR THE PRODUCT ITSELF:

OIL MIST (HIGHLY REFINED OILS):
ANIMALS EXPOSED TO HIGH CONCENTRATIONS OF MIST DEVELOPED OIL RETENTION,
INFLAMMATION, AND PIL GRANULOMAS IN THE RESPIRATORY TRACT. OILS EXPOSED TO HIGH
TEMPERATURES, CRACKING CONDITIONS, OR MIXING WITH TRAMP / USED OILS MAY
INTRODUCE POL CYCLIC AROMATIC COMPOUNDS OR MICROBIAL CONTAMINANTS THAT COULD
RESULT IN CANCER OR SEVER RESPIRATORY HAZARDS.

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.

ADDITIONAL INFORMATION IS AVAILABLE BY REQUEST.
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 PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF ILLUMINATION. 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
AIR (IATA): NOT REGULATED FOR AIR TRANSPORT

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD:
UNDER SOME CONDITIONS, THIS MATERIAL MAY BE CONSIDERED TO BE HAZARDOUS IN ACCORDANCE WITH OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: TSCA

EPCRA: THIS MATERIAL CONTAINS NO EXTREMELY HAZARDOUS SUBSTANCES.

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

SARA 313 TOXIC RELEASE INVENTORY:
THIS MATERIAL CONTAINS NO CHEMICALS SUBJECT TO THE SUPPLIER NOTIFICATION REQUIREMENTS OF THE SARA 313 TOXIC CHEMICAL RELEASE PROGRAM.

THE FOLLOWING INGREDIENTS ARE CITED ON THE LISTS BELOW:

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>LIST CITIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHLORINE (ELEMENTAL ANALYSIS)</td>
<td>7782-50-5</td>
<td>1, 4</td>
</tr>
<tr>
<td>PHOSPHORODITHIOIC ACID, O, 68649-42-2</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>O-DI C1-14-ALKYL ESTERS, ZINC SALTS (2:1) (ZDDP)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:
REVISION CHANGES:
SECTION 13: EMPTY CONTAINER WARNING WAS MODIFIED.
SECTION 09: BOILING POINT C (F) WAS MODIFIED.
SECTION 08: HAND PROTECTION WAS MODIFIED.
SECTION 09: VAPOR PRESSURE WAS MODIFIED.
SECTION 11: INHALATION LETHALITY TEST DATA WAS MODIFIED.
SECTION 06: ACCIDENTAL RELEASE - SPILL MANAGEMENT - WATER WAS MODIFIED.
SECTION 09: RELATIVE DENSITY - HEADER WAS MODIFIED.
SECTION 09: FLASH POINT C (F) WAS MODIFIED.
SECTION 09: VISCOSITY WAS MODIFIED.
SECTION 09: VISCOSITY WAS MODIFIED.
SECTION 08: RESPIRATORY PROTECTION WAS MODIFIED.
SECTION 15: SARA (313) TOXIC RELEASE INVENTORY - HEADER WAS MODIFIED.
SECTION 15: NATIONAL CHEMICAL INVENTORY LISTING WAS MODIFIED.
SECTION 06: NOTIFICATION PROCEDURES WAS MODIFIED.
SECTION 12: BIOACCUMULATION - HEADER WAS ADDED.
SECTION 12: ECOLOGICAL INFORMATION - BIOACCUMULATION WAS ADDED.
SECTION 12: ECOLOGICAL INFORMATION - BIOACCUMULATION WAS ADDED.
SECTION 15: SARA (313) TOXIC RELEASE INVENTORY - TABLE WAS DELETED.
SECTION 15: SARA 313 - CHEMICAL NAME - HEADER WAS DELETED.
SECTION 15: SARA 313 - CAS NUMBER - HEADER WAS DELETED.
SECTION 15: SARA 313 - TYPICAL VALUE - HEADER WAS DELETED.

PRECAUTIONARY LABEL TEXT:

CAUTION!

EXCESSIVE EXPOSURE TO MIST MAY CAUSE SKIN AND EYE IRRITATION. IN ADDITION, EXCESSIVE EXPOSURE TO MIST MAY CAUSE RESPIRATORY IRRITATION AND DAMAGE, AND AGGRAVATE PRE-EXISTING EMPHYSEMA AND ASTHMA. USE WITH ADEQUATE VENTILATION. IF INHALED AND SYMPTOMS DEVELOP, REMOVE TO FRESH AIR AND GET MEDICAL ATTENTION.

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE, TO THE BEST OF EXXON MOBIL'S KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE ISSUED. YOU CAN CONTACT EXXON MOBIL TO INSURE THAT THIS DOCUMENT IS THE MOST CURRENT AVAILABLE FROM EXXON MOBIL. THE INFORMATION AND RECOMMENDATIONS ARE OFFERED FOR THE USER'S CONSIDERATION AND EXAMINATION. IT IS THE USER'S RESPONSIBILITY TO SATISFY ITSELF THAT THE PRODUCT IS SUITABLE FOR THE INTENDED USE. IF BUYER REPackages THIS PRODUCT, IT IS THE USER'S RESPONSIBILITY TO INSURE PROPER HEALTH, SAFETY AND OTHER NECESSARY INFORMATION IS INCLUDED WITH AND/OR ON THE CONTAINER. APPROPRIATE WARNINGS AND SAFE-HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS. ALTERATION OF THIS DOCUMENT IS STRICTLY PROHIBITED. EXCEPT TO THE EXTENT REQUIRED BY LAW, RE-PUBLICATION OR RETRANSMISSION OF THIS DOCUMENT, IN WHOLE OR IN PART, IS NOT PERMITTED. THE TERM, "EXXON MOBIL" IS USED FOR CONVENIENCE, AND MAY NOT INCLUDE ANY ONE OR MORE OF EXXON MOBIL CHEMICAL COMPANY, EXXON MOBIL CORPORATION, OR ANY AFFILIATES IN WHICH THEY DIRECTLY OR INDIRECTLY HOLD ANY INTEREST.

INTERNAL USE ONLY:
MCH: 0, 0, 0, 0, 0, 1
PPEC: A
DGN: 2008031XUS (545270)

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