

Misc

ITEM: 4ZF22 - Oil Air Tool Quart

PICK REQ: 1049654322

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: A9667

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

MATERIAL SAFETY DATA SHEET - A9667

Associated Grainger Item: 4ZF22 Oil Air Tool Quart

EXXONMOBIL
PRODUCT NAME: MOBIL ALMO 525
REVISION DATE: 10 NOV 2005
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 GALLOWAY RD.
FAIRFAX, VA. 22037
USA
24 HOUR HEALTH EMERGENCY: 609-737-4411
TRANSPORTATION EMERGENCY PHONE: 800-424-9300
EXXONMOBIL 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
HTTP://WWW.MOBIL.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

HMTS 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): >188 DEG. C (370 DEG. F) (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. U.S. REGULATIONS REQUIRE REPORTING RELEASES OF THIS MATERIAL TO THE ENVIRONMENT WHICH EXCEED THE 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. REPORT SPILLS AS REQUIRED TO APPROPRIATE AUTHORITIES. 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
1.0 MG/M3 - ACGIH STEL
5 MG/M3 - OSHA 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. 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. 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
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 DEG. C): 0.883

FLASH POINT (METHOD): >188 DEG. C (370 DEG. F) (ASTM D-92)

FLAMMABLE LIMITS (APPROXIMATE VOLUME % IN AIR):

LEL: 0.9

UEL: 0

AUTOMATIC IGNITION TEMPERATURE: N/D

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

VAPOR DENSITY (AIR = 1): >2 AT 101 KPA

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:
46 CST (46 MM2/SEC) AT 40 DEG. C
7.3 CST (7.3 MM2/SEC) AT 100 DEG. 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.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

ROUTES OF EXPOSURE

CONCLUSION / REMARKS

INHALATION:

TOXICITY (RAT):
LC50: >5000 MG/M3

MINIMALLY TOXIC. BASED ON TEST DATA
FOR STRUCTURALLY SIMILAR MATERIALS.

IRRITATION: NO END POINT DATA.

ELEVATED TEMPERATURES OR MECHANICAL

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):
LD50: >2000 MG/KG

MINIMALLY TOXIC. BASED ON TEST DATA
FOR STRUCTURALLY SIMILAR MATERIALS.

SKIN:

TOXICITY (RABBIT):
LD50: >2000 MG/KG

MINIMALLY TOXIC. BASED ON TEST DATA
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 OIL GRANULOMAS IN THE RESPIRATORY TRACT. OILS EXPOSED TO
HIGH TEMPERATURES, CRACKING CONDITIONS, OR MIXING WITH TRAMP / USED OILS MAY
INTRODUCE POLYCYCLIC AROMATIC COMPOUNDS OR MICROBIAL CONTAMINANTS THAT COULD
RESULT IN CANCER OR SEVERE 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; LONG 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

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:

PRECAUTIONARY LABEL TEXT:

EMPTY CONTAINERS MAY RETAIN RESIDUE 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 SHOULD BE
COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM
RECONDITIONER. ALL CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY
SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS.

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 USE CONDITIONS, THIS MATERIAL MAY BE CONSIDERED TO BE HAZARDOUS
IN ACCORDANCE WITH OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: AICS, DSL, EINECS, ENCS, TSCA

EPCRA: THIS MATERIAL CONTAINS NO EXTREMELY HAZARDOUS SUBSTANCES.

(311/312) REPORTABLE HAZARD CATEGORIES: NONE.

S. (313) TOXIC RELEASE INVENTORY:

| CHEMICAL NAME | CAS NUMBER | TYPICAL VALUE |
|----------------|------------|---------------|
| CHLORO ALKANES | 61788-76-9 | 1 - 5% |

THE FOLLOWING INGREDIENTS ARE CITED ON THE LISTS BELOW:

| CHEMICAL NAME | CAS NUMBER | LIST CITATIONS |
|---|------------|----------------|
| CHLORINE (ELEMENTAL ANALYSIS) | 7782-50-5 | 1, 4 |
| PHOSPHORODITHOIC ACID, O,O-DI C1-14-ALKYL ESTERS, ZINC SALTS (2:1) (ZDDP) | 68649-42-3 | 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 R1K
- 13 = IL R1K
- 14 = LA R1K
- 15 = MI 293
- 16 = MN R1K
- 17 = NJ R1K
- 18 = PA R1K
- 19 = RI R1K

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:
NO REVISION INFORMATION IS AVAILABLE.

PI: ADDITIONAL 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 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.

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PPEC: A
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