

# 63

100336

DOD Hazardous Materials Information System  
DoD 6050.5-L  
AS OF July 1998

FSC: 6850  
NIIN: 00N070359  
Manufacturer's CAGE: 27674  
Part No. Indicator: A  
Part Number/Trade Name: ZEP 2000, 4164

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General Information  
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Item Name:  
Company's Name: ZEP MFG CO  
Company's Street:  
Company's P. O. Box: 2015  
Company's City: ATLANTA  
Company's State: GA  
Company's Country: US  
Company's Zip Code: 30301  
Company's Emerg Ph #: 404-432-2873;800-424-9300 (CHEMTREC)  
Company's Info Ph #: 404-352-1680; 404-435-2973  
Distributor/Vendor # 1:  
Distributor/Vendor # 1 Cage:  
Distributor/Vendor # 2:  
Distributor/Vendor # 2 Cage:  
Distributor/Vendor # 3:  
Distributor/Vendor # 3 Cage:  
Distributor/Vendor # 4:  
Distributor/Vendor # 4 Cage:  
Safety Data Action Code:  
Safety Focal Point: N  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 001  
Status: SMJ  
Date MSDS Prepared: 12JAN94  
Safety Data Review Date: 26MAR96  
Supply Item Manager:  
MSDS Preparer's Name:  
Preparer's Company:  
Preparer's St Or P. O. Box:  
Preparer's City:  
Preparer's State:  
Preparer's Zip Code:  
Other MSDS Number:  
MSDS Serial Number: CBLQX  
Specification Number:  
Spec Type, Grade, Class:  
Hazard Characteristic Code:  
Unit Of Issue:  
Unit Of Issue Container Qty:  
Type Of Container:  
Net Unit Weight:

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NRC/State License Number:  
Net Explosive Weight:  
Net Propellant Weight-Ammo:  
Coast Guard Ammunition Code:

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Ingredients/Identity Information  
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Proprietary: YES  
Ingredient: PROPRIETARY  
Ingredient Sequence Number: 01  
Percent:  
Ingredient Action Code:  
Ingredient Focal Point: N  
NIOSH (RTECS) Number:  
CAS Number:  
OSHA PEL:  
ACGIH TLV:  
Other Recommended Limit:  
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Proprietary: YES  
Ingredient: PROPRIETARY  
Ingredient Sequence Number: 02  
Percent:  
Ingredient Action Code:  
Ingredient Focal Point: N  
NIOSH (RTECS) Number:  
CAS Number:  
OSHA PEL:  
ACGIH TLV:  
Other Recommended Limit:  
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Proprietary: YES  
Ingredient: PROPRIETARY  
Ingredient Sequence Number: 03  
Percent:  
Ingredient Action Code:  
Ingredient Focal Point: N  
NIOSH (RTECS) Number:  
CAS Number:  
OSHA PEL:  
ACGIH TLV:  
Other Recommended Limit:  
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Proprietary: YES  
Ingredient: PROPRIETARY  
Ingredient Sequence Number: 04  
Percent:  
Ingredient Action Code:  
Ingredient Focal Point: N  
NIOSH (RTECS) Number:  
CAS Number:  
OSHA PEL:  
ACGIH TLV:

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Other Recommended Limit:  
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Proprietary: YES  
Ingredient: PROPRIETARY  
Ingredient Sequence Number: 05  
Percent:  
Ingredient Action Code:  
Ingredient Focal Point: N  
NIOSH (RTECS) Number:  
CAS Number:  
OSHA PEL:

ACGIH TLV:  
Other Recommended Limit:

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Proprietary: YES  
Ingredient: PROPRIETARY  
Ingredient Sequence Number: 06  
Percent:  
Ingredient Action Code:  
Ingredient Focal Point: N  
NIOSH (RTECS) Number:  
CAS Number:  
OSHA PEL:  
ACGIH TLV:  
Other Recommended Limit:

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Physical/Chemical Characteristics

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Appearance And Odor: AN OPAQUE, AMBER LIQUID WITH A SOLVENT ODOR.  
Boiling Point: >40F, >4C  
Melting Point: N/K  
Vapor Pressure (MM Hg/70 F): N/K  
Vapor Density (Air=1): N/K  
Specific Gravity: 0.75  
Decomposition Temperature: N/K  
Evaporation Rate And Ref: >1.0 (BUTYL ACETATE=1)  
Solubility In Water: NEGLIGIBLE  
Percent Volatiles By Volume: 10  
Viscosity:  
pH: N/A  
Radioactivity:  
Form (Radioactive Matl):  
Magnetism (Milligauss):  
Corrosion Rate (IPY): N/K  
Autoignition Temperature:

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Fire and Explosion Hazard Data

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Flash Point: N/K  
Flash Point Method: N/P  
Lower Explosive Limit: 1.8%  
Upper Explosive Limit: 2.0%  
Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, AND WATER FOG.

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Special Fire Fighting Proc: WEAR NIOSH/MSHA APPROVED SCBA & FULL  
PROTECTIVE EQUIPMENT (FP N).  
Unusual Fire And Expl Hazrds: DIRECT WATER ONTO INTACT CONTAINERS TO  
PREVENT BURSTING.

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Reactivity Data

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Stability: YES  
Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.  
Materials To Avoid: HEAT, OPEN FLAME, SPARK AND OXIDIZING AGENTS.  
Hazardous Decomp Products: CARBON DIOXIDE, CARBON MONOXIDE, AND OXIDES OF  
SULFUR.  
Hazardous Poly Occur: NO  
Conditions To Avoid (Poly): NOT RELEVANT

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Health Hazard Data

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 LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.  
 Route Of Entry - Inhalation: YES  
 Route Of Entry - Skin: YES  
 Route Of Entry - Ingestion: YES  
 Health Haz Acute And Chronic: SPECIAL NOTE:MSDS DATA PERTAINS TO PROD AS  
 DISPENSED FROM CNTNR. ADVERSE HLTH EFTS WOULD NOT BE EXPECTED UNDER REC  
 CNDTNS OF USE (DILUTED) SO LONG AS PRESCRIBED SFTY PRECS ARE PRACTICED.  
 ACUTE:SOLVS IN PROD, WHEN INHALED/ABSORBED IN HARMFUL QTYS, MAY PRDCE CNS  
 DEPRESS CHARACT BY HDCH, NAUS, DIZZ & (EFTS OF OVEREXP)  
 Carcinogenicity - NTP: NO  
 Carcinogenicity - IARC: NO  
 Carcinogenicity - OSHA: NO  
 Explanation Carcinogenicity: NOT RELEVANT  
 Signs/Symptoms Of Overexp: HLTH HAZS:STUPOR. VAPS/SPRAY MISTS MAY BE IRRIT  
 TO NASAL & RESP TRACT. PROD MAY BE IRRIT TO SKIN & EYES RSLTING IN REDNESS,  
 ITCHING/BURNING. INTRODUCTION OF SOLVS, AS IN ASPIR OF VOMIT FLUID, MAY  
 PRDCE CHEM PNEUM. CHRONIC:INHAL EXPOS TO HIGH CONCS OF VAP MAY CAUSE LUNG,  
 LIVER/KIDNEY DMG. SKIN WHICH IS RPTDLY (SUP DAT)  
 Med Cond Aggravated By Exp: EXISTING RESPIRATORY DISORDERS AND SKIN  
 DISEASES MAY BE AGGRAVATED BY EXPOSURE.  
 Emergency/First Aid Proc: SKIN:WASH THORO W/SOAP/MILD DETERGENT. APPLY  
 CREAM W/LANOLIN. GET MED ATTN IF IRRIT PERSISTS. EYES:IMMED FLUSH W/PLENTY  
 OF WATER FOR @ LST 15 MIN, OCCAS LIFTING LIDS. GET MED ATTN AT ONCE. INHAL:  
 MOVE TO FRESH AIR AT ONCE. GET MEDICAL ATTENTION IMMEDIATELY. INGESTION:DO  
 NOT INDUCE VOMITING. IF VOMITING OCCURS, KEEP HEAD BELOW HIP LEVEL. GET  
 EMERGENCY MEDICAL ATTENTION IMMEDIATELY.  
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#### Precautions for Safe Handling and Use

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 Steps If Matl Released/Spill: OBSERVE SFTY PRECS IN CTL MEASURES & OTHER  
 PRECS DURING SPILL CLEAN-UP. LG SPILLS ARE UNLIKELY DUE TO PACKAGING. SPILL  
 MAY BE ABSORBED ON INERT ABSORB MATL (E.G. ZEP-O-ZORO) & PLACED IN SUITABLE  
 CNTNR FOR DISP. WASH AREA THORO W/DETERGENT (SUPP DATA)  
 Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.  
 Waste Disposal Method: PROD IS CONSUMED IN USE. DO NOT CRUSH, PUNCTURE/  
 INCIN SPENT CNTNRS. LG NUMBERS OF AEROSOL CNTNRS MAY REQ HNDLG AS HAZ  
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WASTE, BUT IN MOST STATES TOTAL HAZ WASTE QTYS < 220 LBS PER MONTH MAY SLOW  
 DISP IN CHEM/INDUST WASTE LANDFILL. CONSULT LOC, (SUPDAT)  
 Precautions-Handling/Storing: DO NOT STORE @ TEMPS >120F/IN DIRECT  
 SUNLIGHT. DO NOT PUNCTURE/INCIN CNTNR. FLAM! STORE & USE AWAY FROM HEAT,  
 SPKS, OPEN FLAME & ANY IGNIT SOURCE.  
 Other Precautions: KEEP PROD AWAY FROM SKIN & EYES. DO NOT BRTHE SPRAY  
 MISTS/VAPS. KEEP OUT OF REACH OF CHILDREN.  
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#### Control Measures

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 Respiratory Protection: WHEN EXPOSURE LEVELS EXCEED PEL/TLV (LIKELY IN  
 CONFINED AREAS) USE A NIOSH/MSHA APPROVED ORGANIC VAPOR RESPIRATOR (E.G.  
 ZEP 2311).  
 Ventilation: PROVIDE LOCAL EXHAUST VENTILATION AS NEEDED TO KEEP  
 CONCENTRATION OF VAPORS BELOW EXPOSURE LIMITS (PEL/TLV).  
 Protective Gloves: WEAR NEOPRENE, NITRILE/NATURAL (SUPDAT)  
 Eye Protection: ANSI APPROVED CHEM WORKERS GOGGS (FP N).  
 Other Protective Equipment: ANSI APPROVED EMERGENCY EYE WASH AND DELUGE  
 SHOWER (FP N).  
 Work Hygienic Practices: CLOTHING OR SHOES WHICH BECOME CONTAMINATED WITH  
 SUBSTANCE SHOULD BE REMOVED PROMPTLY & NOT REWORN UNTIL THORO CLEANED.  
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Suppl. Safety & Health Data: EFTS OF OVEREXP:DEFAT BY CONT W/PROD MAY BE MORE SUSCEPTIBLE TO IRRIT, INFECTION/DERM. SPILL:SOLN & RINSE WELL W/WATER. WASTE DISP METH:STATE & FED AGENCIES FOR PROPER DISP METH IN YOUR AREA. RCRA HAZ WASTE #'S:C001. PROT GLOVES:RUBBER GLOVES/GLOVES W/PROVEN RESISTANCE TO THE INGREDIENTS LISTED.

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 Transportation Data  
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Transportation Action Code:  
 Transportation Focal Point:  
 Trans Data Review Date:  
 DOT PSN Code:  
 DOT Symbol:  
 DOT Proper Shipping Name:  
 DOT Class:  
 DOT ID Number:  
 DOT Pack Group:  
 DOT Label:  
 DOT/DoD Exemption Number:  
 IMO PSN Code:  
 IMO Proper Shipping Name:  
 IMO Regulations Page Number:  
 IMO UN Number:  
 IMO UN Class:  
 IMO Subsidiary Risk Label:  
 IATA PSN Code:  
 IATA UN ID Number:  
 IATA Proper Shipping Name:  
 IATA UN Class:  
 IATA Subsidiary Risk Class:  
 IATA Label:  
 AFI PSN Code:

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AFI Symbols:  
 AFI Prop. Shipping Name:  
 AFI Class:  
 AFI ID Number:  
 AFI Pack Group:  
 AFI Label:  
 AFI Special Prov:  
 AFI Basic Pac Ref:  
 MMAC Code:  
 N.O.S. Shipping Name:  
 Additional Trans Data:

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 Disposal Data  
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Disposal Data Action Code:  
 Disposal Data Focal Point:  
 Disposal Data Review Date:  
 Rec # For This Disp Entry:  
 Tot Disp Entries Per NSN:  
 Landfill Ban Item:  
 Disposal Supplemental Data:  
 1st EPA Haz Wst Code New:  
 1st EPA Haz Wst Name New:  
 1st EPA Haz Wst Char New:  
 1st EPA Acute Hazard New:  
 2nd EPA Haz Wst Code New:

2nd EPA Haz Wst Name New:  
 2nd EPA Haz Wst Char New:  
 2nd EPA Acute Hazard New:  
 3rd EPA Haz Wst Code New:  
 3rd EPA Haz Wst Name New:  
 3rd EPA Haz Wst Char New:  
 3rd EPA Acute Hazard New:

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Label Data

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Label Required: YES  
 Technical Review Date: 26MAR96  
 Label Date:  
 MFR Label Number:  
 Label Status: G  
 Common Name: ZEP 2000, 4164  
 Chronic Hazard: YES  
 Signal Word: WARNING!  
 Acute Health Hazard-None:  
 Acute Health Hazard-Slight:  
 Acute Health Hazard-Moderate: X  
 Acute Health Hazard-Severe:  
 Contact Hazard-None:  
 Contact Hazard-Slight: X  
 Contact Hazard-Moderate:  
 Contact Hazard-Severe:  
 Fire Hazard-None: X

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Fire Hazard-Slight:  
 Fire Hazard-Moderate:  
 Fire Hazard-Severe:  
 Reactivity Hazard-None: X  
 Reactivity Hazard-Slight:  
 Reactivity Hazard-Moderate:  
 Reactivity Hazard-Severe:  
 Special Hazard Precautions: ACUTE:SOLVENTS IN PRODUCT, WHEN INHALED OR  
 ABSORBED IN HARMFUL QUANTITIES, MAY PRODUCE CENTRAL NERVOUS SYSTEM  
 DEPRESSION CHARACTERIZED BY HEADACHE, NAUSEA, DIZZINESS AND STUPOR. VAPORS  
 OR SPRAY MISTS MAY BE IRRITATING TO NASAL AND RESPIRATORY TRACT. PRODUCT  
 MAY BE IRRITATING TO SKIN AND EYES RESULTING IN REDNESS, ITCHING OR  
 BURNING. INTRODUCTION OF SOLVENTS, AS IN ASPIRATION OF VOMITUS FLUID, MAY  
 PRODUCE CHEMICAL PNEUMONITIS. CHRONIC:INHALATION EXPOSURE FOR HIGH  
 CONCENTRATIONS OF VAPOR MAY CAUSE LUNG, LIVER OR KIDNEY DAMAGE. SKIN WHICH  
 IS REPEATEDLY DEFATTED BY CONTACT MAY BE MORE SUSCEPTIBLE TO IRRITATION,  
 INFECTION OR DERMATITIS.  
 Protect Eye: Y  
 Protect Skin: Y  
 Protect Respiratory: Y  
 Label Name: ZEP MFG CO  
 Label Street:  
 Label P.O. Box: 2015  
 Label City: ATLANTA  
 Label State: GA  
 Label Zip Code: 30301  
 Label Country: US  
 Label Emergency Number: 404-432-2873;800-424-9300 (CHEMTREC)  
 Year Procured: