

OLD WORLD AUTOMOTIVE PRODUCTS -- MIL-A-46153B;ANTIFREEZE,ETHYLENE GLYCOL -  
ANTI-FREEZE, ETHYLENE GLYCOL, INHIBITED  
MATERIAL SAFETY DATA SHEET  
OLD WORLD AUTOMOTIVE PRODUCTSNSN: 6850001817929  
Manufacturer's CAGE: 2U130  
Part No. Indicator: A  
Part Number/Trade Name: MIL-A-46153B;ANTIFREEZE,ETHYLENE GLYCOL

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General Information  
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Item Name: ANTI-FREEZE, ETHYLENE GLYCOL, INHIBITED  
Company's Name: OLD WORLD AUTOMOTIVE PRODUCTS,INC.  
Company's Street: NINE NORTH BROADWAY  
Company's City: DES PLAINES  
Company's State: IL  
Company's Country: US  
Company's Zip Code: 60016-2335  
Company's Emerg Ph #: 312-699-2000  
Company's Info Ph #: 312-699-2000  
Distributor/Vendor # 1: J. B. WATTS COMPANY, INC./CHICAGO, IL.  
Distributor/Vendor # 1 Cage: 7U402  
Record No. For Safety Entry: 015  
Tot Safety Entries This Stk#: 032  
Status: SM  
Date MSDS Prepared: 01AUG88  
Safety Data Review Date: 26FEB90  
Supply Item Manager: CX  
MSDS Serial Number: BDGNG  
Specification Number: MIL-A-46153  
Spec Type, Grade, Class: REV B,AMD 1  
Hazard Characteristic Code: N1  
Unit Of Issue: GL  
Unit Of Issue Container Qty: 1.0 GL  
Type Of Container: BOTTLE  
Net Unit Weight: 1.0 GL

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Ingredients/Identity Information  
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Proprietary: NO  
Ingredient: ETHYLENE GLYCOL (SARA III)  
Ingredient Sequence Number: 01  
Percent: 90-95  
NIOSH (RTECS) Number: KW2975000  
CAS Number: 107-21-1  
OSHA PEL: C 50 PPM  
ACGIH TLV: C 50 PPM,VAPOR; 9192

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Proprietary: NO  
Ingredient: WATER  
Ingredient Sequence Number: 02  
NIOSH (RTECS) Number: ZC0110000  
CAS Number: 7732-18-5  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED

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Proprietary: NO  
Ingredient: INHIBITORS,SODIUM SALTS OF BORATES,PHOSPHATES,TRIAZOLES

Ingredient Sequence Number: 03  
Percent: 4.0  
NIOSH (RTECS) Number: 1000602IN

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Proprietary: NO  
Ingredient: DIETHYLENE GLYCOL  
Ingredient Sequence Number: 04  
Percent: 0-5  
NIOSH (RTECS) Number: ID5950000  
CAS Number: 111-46-6  
ACGIH TLV: 25 PPM

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Physical/Chemical Characteristics

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Appearance And Odor: GREEN LIQUID WITH MILD ODOR  
Boiling Point: 398F/203C  
Vapor Pressure (MM Hg/70 F): 0.4  
Vapor Density (Air=1): 2.1  
Specific Gravity: 1.12  
Solubility In Water: COMPLETE  
Percent Volatiles By Volume: 97.0  
Autoignition Temperature: 750F

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Fire and Explosion Hazard Data

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Flash Point: 245F/118C  
Flash Point Method: TCC  
Lower Explosive Limit: 1.5  
Extinguishing Media: NFPA CLASS B EXTINGUISHERS FOR CLASS III B LIQUID FIRES ( DRY CHEMICAL, FOAM, OR CARBON DIOXIDE( CO2) ).  
Special Fire Fighting Proc: WATER SPRAY MAY BE INEFFECTIVE ON FIRE,BUT CAN PROTECT FIRE-FIGHTERS & COOL CLOSED CONTAINERS. USE FOG NOZZLES FOR WATER. USE NIOSH APPRVD. POS-PRESS. "SCBA"  
Unusual Fire And Expl Hazrds: CLOSED CONTAINERS MAY EXPLODE IF EXPOSED TO EXTREME HEAT. APPLYING TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS. FOLLOW LABEL PRECAUTIONS.

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Reactivity Data

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Stability: YES  
Cond To Avoid (Stability): HEAT,OPEN FLAME  
Materials To Avoid: OXIDIZERS SUCH AS PERMANGANTES, CHROMATES & PEROXIDES.  
Hazardous Decomp Products: CARBON MONOXIDE & CARBON DIOXIDE IN LIMITED AIR SUPPLY  
Hazardous Poly Occur: NO

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Health Hazard Data

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LD50-LC50 Mixture: ORAL RAT:5840MG/KG  
Route Of Entry - Inhalation: YES  
Route Of Entry - Skin: YES  
Route Of Entry - Ingestion: YES  
Health Haz Acute And Chronic: ACUTE: SKIN-IRRITATION, DEFATTING, & DERMATITIS; ABSORPTION THRU SKIN INCREASES EXPOSURE; EYES-IRRITANT, REDNESS, TEARING,& BLURRED VISION; INGEST-HARMFUL OR FATAL WHEN INGESTED. MAY CAUSE ABDOMINAL IRRITATION, NAUSEA, VOMITING & DIARRHEA; CHRONIC: EYE & SKIN IRRITATION. MAY AFFECT LIVER OR KIDNEY.

Carcinogenicity - NTP: NO  
Carcinogenicity - IARC: NO  
Carcinogenicity - OSHA: NO

Signs/Symptoms Of Overexp: CONJUNCTIVITIS; NAUSEA, VOMITING, ABDOMINAL PAIN, & OCCASIONALLY HEMATEMESIS; WEAKNESS; MYDRIASIS; CYANOSIS; TREMORS & CONVULSIONS; AREFLEXIA; NARCOSIS & COMA; ALBUMINURIA, HEMATURIA ANURIA; LYMPHOCYTOSIS; CENTRAL NERVOUS SYSTEM DEPRESSION AND HEMATOPOIETIC DYSFUNCTION FROM INHAL. OVEREXPOSURE; (FP D)

Med Cond Aggravated By Exp: MFR. CITES NONE; PRE-EXISTING RESPIATORY, DERMATOLOGICAL, RENAL, OR HEPATIC CONDITIONS MAY BE AGGRAVATED.

Emergency/First Aid Proc: SKIN & EYES: FLUSH W/PLENTY OF WATER WITH AT LEAST 15 MINS. FOR EYES & GET MED. ATTN. AS REQUIRED; INHAL: REMOVE TO FRESH AIR & GIVE O2/CPR AS SITUATION DICTATES; INGEST: "GET IMMEDIATE" MEDICAL ATTN., & INDUCE VOMITING FOLLOWING APPROPRIATE MEDICAL INSTRUCTIONS.

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Precautions for Safe Handling and Use  
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Steps If Matl Released/Spill: SMALL: MOP UP WITH ABSORBENT MATERIAL & TRANSFER TO HOOD; LARGE: ISOLATE FROM OXIDIZERS, HEAT & OPEN FLAME. PERSON W/O PROPER PROTECTION SHOULD BE KEPT FROM AREA UNTIL CLEANED UP.

Waste Disposal Method: SMALL: EVAPORATE UNTIL ALL VAPORS ARE GONE. DISPOSE OF REMAINDER BY LEGALLY APPLICABLE METHODS; LARGE: RECYCLE OR INCINERATE OBSERVING APPROPRIATE LOCAL, STATE, & FEDERAL REGULATIONS.

Precautions-Handling/Storing: STORE LARGE AMOUNTS IN STRUCTURES MADE FOR OSHA CLASS "OTHER LIQUIDS". AVOID FREE FALL OF LIQUID. GROUND CONTAINERS WHEN TRANSFERRING.

Other Precautions: DO NOT CUT, BRAZE OR WELD. EMPTY CONTAINERS MAY BE HAZAROUS. KEEP CONTAINERS TIGHTLY CLOSED. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR OR SPRAY MIST. DONOT GET IN EYES, ON SKIN OR CLOTHING.

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Control Measures  
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Respiratory Protection: IF ENGINEERING CONTROLS DO NOT KEEP INHALATION EXPOSURES BELOW PEL/TLV FOR TASK AT HAND, USE NIOSH/MSHA APPROVED RESPIRATORS AS PER CURRENT 29CFR1910.134, 'INSTRUCTIONS/WARNINGS' & NIOSH-RESPIRATOR DECISION LOGIC-PUB.#87-108 (FP D)

Ventilation: PROVIDE SUFFICIENT GENERAL/LOCAL EXHAUST VENTILATION IN PATTERN/VOLUME TO CONTROL INHALATION EXPOSURES BELOW PEL/TLV !

Protective Gloves: IMPERVIOUS TYPE FOR TASK AT HAND

Eye Protection: SAFETY GLASSES W/SHLDS

Other Protective Equipment: APRON, EYE-WASH FACILITIES, SAFETY SHOWER

Work Hygienic Practices: AVOID CONTACT WITH EYESS & SKIN; DONOT BREATHE VAPORS/MISTS. DO NOT TAKE INTERNALLY.

Suppl. Safety & Health Data: REVIEW INDUSTRIAL HYGIENE PRACTICES FOR USE OF THIS MATERIAL FOR TASK AT HAND !

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Transportation Data  
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Trans Data Review Date: 89083

DOT PSN Code: ZZZ

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

IMO PSN Code: ZZZ

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

IATA PSN Code: ZZZ

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

AFI PSN Code: ZZZ

AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
Additional Trans Data: NOT REG FOR TRANSP

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Disposal Data  
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Disposal Data Review Date: 90144  
Rec # For This Disp Entry: 04  
Tot Disp Entries Per NSN: 006  
Landfill Ban Item: YES  
Disposal Supplemental Data: 1REVIEW INDUSTRIAL HYGIENE PRACTICES FOR USE  
OF THIS MATERIAL FOR TASK AT HAND ! IN CASE OF ACCIDENTAL EXPOSURE OR  
DISCHARGE, CONSULT HEALTH AND SAFETY FILE FOR PRECAUTIONS.  
1st EPA Haz Wst Name New: NOT REGULATED  
1st EPA Haz Wst Char New: NOT REGULATED BY RCRA  
1st EPA Acute Hazard New: NO

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Label Data  
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Label Required: YES  
Label Status: G  
Common Name: MIL-A-46153B;ANTIFREEZE,ETHYLENE GLYCOL  
Special Hazard Precautions: ACUTE: SKIN-IRRITATION, DEFATTING, &  
DERMATITIS; ABSORPTION THRU SKIN INCREASES EXPOSURE; EYES-IRRITANT,  
REDNESS, TEARING,& BLURRED VISION; INGEST-HARMFUL OR FATAL WHEN INGESTED.  
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