

Material Safety Data Sheet

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SECTION I - Material Identity

Item Name

Part Number/Trade Name FULL FORCE ANTIFREEZE AND SUMMER COOLANT

National Stock Number 6850001817933

CAGE Code OFGA3

Part Number Indicator A

MSDS Number 95894

HAZ Code B

SECTION II - Manufacturer's Information

Manufacturer Name OLD WORLD AUTOMOTIVE PRODUCTS INC
Street NINE NORTH BROADWAY
City DES PLAINES
State IL
Country US
Zip Code 60016
Emergency Phone 312-699-2000
Information Phone 312-699-2000

MSDS Preparer's Information

Date MSDS Prepared/Revised 00JAN89
Date of Technical Review 20MAR91
Active Indicator N
Item Manager CX

Alternate Vendors

Vendor #1 Name VALDES G ENTERPRISES INC
Vendor #1 CAGE 3J032
Vendor #2 Name OLD WORLD TRADING CO INC
Vendor #2 CAGE 2U130
Vendor #5 CAGE BJQNK

SECTION III - Physical/Chemical Characteristics

Specification Number

MIL-A-46153B

Hazard Storage Compatibility Code	N1-F6
NRC License Number	N/R
Net Propellant Weight (Ammo)	N/R
Appearance/Odor	GREEN LIQUID WITH MILD ODOR
Boiling Point	339F,171C
Melting Point	N/R
Vapor Pressure	0.4
Vapor Density	2.1
Specific Gravity	1.12
Decomposition Temperature	UNKNOWN
Evaporation Rate	N/K
Solubility in Water	N/K
Percent Volatiles by Volume	97.0
Corrosion Rate	UNKNOWN
Container Pressure Code	4
Temperature Code	8
Product State Code	U

SECTION IV - Fire and Explosion Hazard Data

Flash Point	245
Flash Point Method	TCC
Lower Explosion Limit	1.5
Upper Explosion Limit	N/K
Extinguishing Media	USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL
Special Fire Fighting Procedures	WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. CONTAIN RUNOFF

SECTION V - Reactivity Data

Stability	YES
Stability Conditions to Avoid	ISOLATE FROM OXIDIZERS, HEAT AND OPEN FLAME
Materials to Avoid	ISOLATE FROM STRONG OXIDIZERS SUCH AS PERMANGANATES, CHROMATES AND PEROXIDES
Hazardous Decomposition Products	CARBON MONOXIDE, CARBON DIOXIDE AND OXIDES OF NITROGEN
Hazardous Polymerization	NO
Polymerization Conditions to Avoid	NOT APPLICABLE
LD50 - LD50 Mixture	ACUTE ORAL LD50 (RAT) IS 5840 MG/KG

SECTION VI - Health Hazard Data

Route of Entry: Skin	YES
Route of Entry: Ingestion	YES
Route of Entry: Inhalation	YES
Health Hazards - Acute and Chronic	ACUTE: PRIMARY IRRITATION TO SKIN, DEFFATING, DERMATITIS. PRIMARY IRRITATION TO EYES, REDNESS, TEARING, BLURRED VISION. ABSORPTION THRU SKIN INCREASES EXPOSURE. INGESTION MAY BE HARMFUL OR FATAL. MAY CAUSE ABDOMINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA. CHRONIC: LIQUID CAUSES EYE IRRITATION
Carcinogenit y: NTP	NO
Carcinogenit y: IARC	NO
Carcinogenit y: OSHA	NO
Explanation of Carcinogenit y	NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN

Neutralizing Agent NONE SPECIFIED BY MANUFACTURER. WATER DILUTION RECOMMENDED

Waste Disposal Method SMALL: EVAPORATE UNTIL ALL VAPORS ARE GONE. DISPOSE OF REMAINDER BY LEGALLY APPLICABLE METHODS. LARGE: RECYCLE OR INCINERATE OBSERVING LOCAL, STATE AND FEDERAL HEALTH, SAFETY AND POLLUTION

Handling and Storage RE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

Precautions ST

Other Precautions STORE LARGE AMOUNTS IN STRUCTURES MADE FOR OSHA CLASS OTHER LIQUIDS. AVOID FREE FALL OF LIQUID. GROUND CONTAINERS WHEN TRANSFERRING. DO NOT FLAME CUT, BRAZE OR WELD. EMPTY CONTAINER VERY HAZARDOUS. FOLLOW LABEL PRECAUTIONS

SECTION VIII - Control Measures

Respiratory Protection IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED ORGANIC VAPOR CARTRIDGE AND DUST/MIST PRE-FILTER RESPIRATORS AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRATOR SELECTION

Ventilation MECHANICAL (GENERAL) ROOM VENTILATION IS ADEQUATE IF USE IS ENCLOSED. LOCAL EXHAUST IS NEEDED IF VENTED INTO WORK AREA

Protective Gloves NEOPRENE, NITRILE, PVC OR NATURAL RUBBER

Eye Protection SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED

Work Hygienic Practices OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR

Supplemental Health/Safety Data DO NOT TAKE INTERNALLY. DO NOT GET ON SKIN OR IN EYES. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. DO NOT BREATHE MISTS. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING OR SMOKING OR USING RESTROOM

Disposal Code 0

SECTION IX - Label Data

Protect Eye

YES

Container Quantity 5
Unit of Measure GL

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G) 9.3408
Volatile Organic Compounds (G/L) 1119.3906

SECTION XII - Ingredients/Identity Information

Ingredient #	01
Ingredient Name	ETHYLENE GLYCOL (SARA III)
CAS Number	107211
NIOSH Number	KW2975000
Proprietary	NO
Percent	90-95%
OSHA PEL	C 50 PPM
ACGIH TLV	C 50 PPM,VAPOR; 9192
Recommended Limit	NONE SPECIFIED
Ingredient #	02
Ingredient Name	DIPROPYLENE GLYCOL METHYL ETHER
CAS Number	20324327
NIOSH Number	1002526DP
Proprietary	NO
Percent	0-5%
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED

Recommended Limit

NONE SPECIFIED