

MATERIAL SAFETY DATA SHEET

U.S. Department of Labor Compliance

OSHA's Hazard Communication Standard CFR 1910.1200

PRODUCT IDENTITY: Autoguard Windshield Washer Fluid (-20 deg F)

SECTION 1

Manufacturer's Name: Warren Oil Company, Inc.
PO Box 1507
Dunn, NC 28335

Emergency Assistance: Telephone No. (800) 779- 6456
Information (910) 892- 6456

SECTION 2 - PHYSICAL DATA

Chemical Name & Synonyms: Solvent

Chemical Family: Methyl Alcohol

NFPA HAZARD RATING (METHYL ALCOHOL)

Health 1
Flammability 3
Reactivity 0

COMPOSITION

Ingredients	CAS Number	0%	OSHA mg/Pel	OSHA mg/m ³	AGGIE TLV	Units
Methyl Alcohol	67--56-1	> 40%	200	260	200	ppm
Water	7732-18-5	< 60%	N/A	N/A	N/A	N/A

Boiling Range: (@ 760 mmHg) 212 deg F
API Gravity 17.8
Specific Gravity: 0.948
Pounds/Gallon 7.897
Vapor Pressure: (mmHg @ 68 deg F) 85
Vapor Density: (air = 1) >1
Solubility in Water Complete
Solubility in Acid Complete
Dry Time (Ether=1) Long
% Volatile By Vol.: 99.5
Appearance Clear Blue
Odor: Slight Alcohol
Refractive Index: 1.332
Evaporation Rate: (n-Butyl Acetate = 1) >1

SECTION 3 - FIRE & EXPLOSION HAZARD DATA

Flammable Limits (% by volume)

Lower Explosive Limit (LEL)	6
Upper Explosive Limit (UEL)	36.5
Autoignition Temperature	385 deg. C
Flash Point	110 deg. F

Extinguishing Media: NFPA Class B extinguisher (Carbon Dioxide, Dry Chemical or alcohol foam, mist or fog) for class I C liquid fires.

Special Fire Fighting Procedures: Water spray may be ineffective on fire but can protect fighters & cool closed containers. Use fog nozzles if water is used. Use air-supplied breathing masks.

Unusual Explosion and Fire Procedures: FLAMMABLE!! Keep container tightly closed. Isolate from oxidizers, heat, sparks, electric equipment & open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Vapors are heavier than air and may travel a considerable distance to an ignition source and then flashback.

DANGER !!!!!!!

FLAMMABLE

VAPOR HARMFUL

BREATHING OF VAPOR MAY CAUSE IRRITATION

MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED

CANNOT BE MADE NON-POISONOUS

SWALLOWING CAN CAUSE ABDOMINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

SECTION 4 HEALTH HAZARD DATA

Use only with adequate ventilation. Avoid contact with skin and eyes. Do not take internally. Wear OSHA Standard Chemical splash goggles. Consult Safety Equipment Supplier. Wear gloves and foot wear impervious to solvents. Wash clothing before reuse. Keep closures tight and upright to prevent leakage. Keep closed when not in use.

First Aid: In case of contact with skin, flush with plenty of water. For eyes, flush with plenty of water for 15 minutes and get medical attention. After high vapor exposure, remove to fresh air. If breathing is difficult give oxygen. If breathing has stopped give artificial respiration.

POISON!!!!!! CALL PHYSICIAN!!!!!!

IF SWALLOWED: Induce vomiting promptly according to physician's instructions or by having patient stick finger down throat. After vomiting has been induced, give two teaspoonful of baking soda in a glass of water. Never give anything by mouth to an unconscious person. Have patient lie down and keep warm.

KEEP OUT OF THE REACH OF CHILDREN!!!

Threshold limit Value: N/A

Effects of Inhaling and Acute Over-Exposure: Anesthetic.

Irritates respiratory tract. May cause serious nervous system depression. May cause damage to kidneys, blood, nerves, liver and lungs. Repeated exposure over TLV may cause blindness.

Skin Contact: Primary irritation, defatting, dermatitis.

Eye Contact: Primary irritation, redness, tearing, blurred vision. Vapor harmful. Breathing of vapor may cause irritation. May be fatal or cause blindness if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting and diarrhea.

COVER EYE TO EXCLUDE LIGHT.

Potential carcinogen	NO	I.A.R.C. monograph	NO
National Toxicology Program		OSHA	
EPA	NO		

SECTION 5 - REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Isolate from heat, sparks, electric equipment, open flames and build-up of static electricity. May react with metallic aluminum when heated.

Materials to Avoid: Isolate from strong oxidizers such as permanganate.

Hazardous Decomposition Products: Carbon Monoxide, carbon dioxide and /or formaldehyde may be released in a methanol fire.

Hazardous Polymerization: Will not occur.

SECTION 6 - ENVIRONMENTAL PROTECTION

Spill or Leak Procedures: Small: Mop up with absorbent material and transfer to hood. Large: Isolate from oxidizers, heat, sparks, electric equipment and open flames. Persons without proper protection should be kept from area until cleaned up. Stop spill at source. Dike area to prevent spread. Pump liquid to salvage tank. Remainder may be taken up on absorbent material and shoveled into containers.

Waste disposal Method: Small: Evaporate until all vapors are gone. Dispose of remainder by legally applicable methods. Large: Dispose of through a licensed waste disposal company, following local, state and Federal health, safety and pollution laws

Disposal: Recycle or dispose of observing local, state and Federal health, safety and pollution laws. If spilled, mop up and dispose of.

SECTION 7 - EMPLOYEE PROTECTION

Ventilate to keep air below 100 ppm. if over TLV, use self contained air pack approved by NIOSH/OSHA. Consult Safety Equipment Supplier. Use explosion proof equipment.

Wear OSHA Standard chemical splash goggles. Consult Safety Equipment Supplier. Wear gloves and footwear impervious to solvents. Wash clothing before reuse.

SECTION 8 - SPECIAL PROTECTION

Do not store above 49 deg C/120 deg F. Store large amounts in structures made for OSHA Class I C liquids. Avoid free fall of liquid. Ground containers when pouring. Do not flame cut, saw, braze or weld. Empty container hazardous! Continue all label precautions!

DOT Shipping Name: Combustible liquid, NOS (NA1993)

ATTENTION!!! THIS CONTAINER IS HAZARDOUS WHEN EMPTIED SINCE EMPTIED CONTAINER RETAIN PRODUCT RESIDUES (VAPOR OR LIQUID), ALL HAZARD PRECAUTIONS MUST BE OBSERVED.

Date Revised: 1/03/2005