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Product Name: WIND SHIELD WASHER

MATERIAL SAFETY DATA SHEET

In compliance with Superfund Amendments and Reauthorization Act (SARA Title III, Section 313), Federal Hazard communications regulations (WHMIS and OSHA CFR 1910.1200).

The information furnished as part of this document will be kept confidential and disclosed only as necessary to meet the requirements of Occupational Safety and Health Administration (1970) or those of Federal, State or local regulatory agencies.

SECTION I- IDENTIFICATION

Product name: WIND SHIELD WASHER
Manufacturer: ASPHALT SEALERS, INC., CLEARSHIELD PRODUCTS DIVISION
P.O. BOX 7358, NEW CASTLE, PA 16107.

Emergency Phone No. 412-658-6260
Information Phone No. 800-783-6262

Effective Date: 10/27/93
Superseded Date: 2/25/92

Trade Name - WIND SHIELD WASHER FLUID.
Chemical Family- ALCOHOL SOLUTION IN WATER.
Chemical Name - ALIPHATIC ALCOHOL-WATER MIXTURE.

Prepared By : G.C. Dubey

SECTION II- INGREDIENTS

Ingredients	CAS NO.	WTS	Occupational Exposure Limits		
			OSHA PEL (Value/Units/Time)	ACGIH TLV (value/Units/Time)	STEL
Hazardous Ingredients:					
Methyl Alcohol	67-56-1	Mls. 33.00	200 PPM/8HRS.	200 PPM/8HRS.	250 PPM,

Listed in SARA Title III,
Section 311,312 Hazard categories :
IMMEDIATE (ACUTE) HEALTH HAZARD. DELAYED (CHRONIC) HEALTH HAZARD.
FIRE HAZARD

Section 313:
This Product contains the following chemicals subject to reporting requirements of SARA TITLE III,
Section 313 and CFR 372: METHYL ALCOHOL.

TOXIC SUBSTANCES CONTROL ACT (TSCA) : All components of this product are listed on TSCA inventory.

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA):

This product contains the following chemicals subject to reporting requirements of CERCLA:
METHANOL (METHYL ALCOHOL) REPORTABLE QUANTITY (RQ), LBS/KG : 5000 1/2270 KG.

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CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986-PROPOSITION 65:

This product contains the following chemical(s) listed by the State Of California as 'Known to State to cause reproductive toxicity': Ethanol.

Other Ingredients:

WATER	7732-18-5	Max. 67.00	N/A	N/A	N/A
	Listed in SARA TITLE III, Sec. 313 - NO				
LC 50	- N/A	LD 50	- CTI OVER 320,000		
BLUE DYE	6460-05-5	-	N/A	N/A	N/A
	Listed in SARA TITLE III, Sec. 313 - No				
LC 50	- N/A	LD 50	- N/A		

Notes: PEL - Permissible Exposure Limit
 STEL - Short term Exposure Limit
 N/A - Not Available or Applicable.
 TLV- Threshold Limit value
 TWA- Time Weighted Average.

Total weight percentage of all the listed ingredients could be below 100, indicating other unlisted ingredients that are not considered hazardous by any federal (OSHA, WHMIS, SARA), any state or province or local Right-To-Know Regulations.

SECTION III, PHYSICAL DATA

Boiling Point:	Vapor Pressure:	Vapor density	Volatile Characteristics:
148 F @ 760 mm/Hg	(mm Hg @ 68 Deg F)	(Air=1)	Appreciable
	96	Approx. 1.1	
		liquid. Tar odor.	
Evaporation Rate:	Specific Gravity:	pH:	Miscibility with Water:
(Water=1)			
1	0.955	N/A	Infinite
Freezing Point:	Appearance:		
N/A	Light Blue Color Liquid with mild alcohol smell.		
Threshold Odor:			
(PPH)			
2000, Irritation @ 1000 PPH.			

SECTION IV- FIRE AND EXPLOSION HAZARD DATA

Flammability Classification:	Flash Point:	Flammable Limits
Extremely Flammable	(method used)	
OSHA/NFPA: CLASS - IB, FLAMMABLE LIQUID	90 deg. F, Tag Open Cup.	Lower - 6% Approx. Higher - 36.6% Approx.
Combustion products:	Extinguishing Media:	
CO, CO2, Formaldehyde	Alcohol type foam, dry chemical, CO2, Water spray, water fog, Halon, Water fog water spray and foam can cool the fire but probably will not extinguish it.	

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Special fire Fighting Procedures: Cool exposed containers to prevent steam pressure build up. Wear self-contained breathing equipment, face shield and protective clothing. Methanol fire may not be visible to the naked eye. Do not enter any confined/enclosed fire area without proper protective equipment. Evacuate

immediately if there is a rising sound of venting safety devices or tank discoloration. Mixtures with water containing more than 21% by volume of methanol are flammable.

Unusual fire and Explosion Hazards: Containers may rupture due to steam pressure buildup. Product may burn with invisible flame.

Explosive Power: N/A	Burning rate: N/A	NFPA rating: Health=3, Fire=3, Reactivity=0
UN/NA/PIIM UN 1230	Static Sensitive Low	Impact Sensitive NO

SECTION V- HEALTH HAZARD DATA

Threshold Limit Value - 200 PPM Published.
Routes Of Entry - Skin, eyes, inhalation, ingestion.
Effects Of Overexposure - Acute: YES Chronic: YES

Eyes - May cause eye irritation in short term exposure, including a burning sensation, tearing, redness or swelling, upon direct contact with the liquid. Conjunctivitis and corneal burn may result.

Skin - Upon prolonged or repeated contact, absorption through the skin may occur and produce toxic effects similar to those resulting from inhalation exposure. Skin irritation or more serious disorders may occur upon prolonged and repeated contact due to skin defatting.

Inhalation- Short term exposure to high levels of vapor may cause central nervous system depression. Symptoms include nausea, drowsiness, vertigo, fatigue, convulsion, unconsciousness and death, depending on duration of exposure. (See summary below).

Ingestion- Swallowing only 1 to 4 ounces has been reported to cause death or serious irreversible injury such as blindness. Methanol metabolism causes systemic acidosis resulting in damage to optic nerve. Symptoms may be delayed.

Summary of Chronic Hazards and Special health effects.

Methanol is slowly eliminated from the body, hence repeated exposures may result in toxic levels in the blood and tissues. In limited animal studies where Methanol was given orally or applied to the skin, there has been no evidence of carcinogenic potential. Methanol has been reported to cause birth defects in rats exposed to very high concentrations (20,000 PPM). Personnel with pre-existing CNS disease, impaired liver or kidney function or chronic respiratory diseases should avoid exposure.

Carcinogenic: IARC- NO ACGIH- NO

Emergency and first aid procedures:

Eyes- Immediately flush with plenty of water for 15 minutes, call a physician, if condition persists.

Skin- Immediately remove contaminated clothing. Wash affected skin thoroughly with soap and water. Seek medical attention if irritation persists. Wash clothing before reuse. Wash or discard contaminated leather shoes/gloves.

Inhalation- Immediately move to fresh air and keep individual quiet. For respiratory distress, give air or oxygen and/or administer cardiopulmonary resuscitation (CPR). Obtain emergency medical attention.

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Ingestion- Induce vomiting as soon as possible (within 30 minutes of ingestion). Ingestion even in small amounts can cause blindness. Onset of symptoms may be delayed for 18-24 hrs., therefore, treatment before the onset of symptoms may be life-saving. Ethanol inhibits formation of toxic metabolites. If indicated start with a loading dose of 7.6-10 ml/Kg to achieve 100-130 mg/Dl blood Ethanol level during ethanol therapy. If Charcoal is administered, Ethanol should be administered intravenously and not orally.

SECTION VI- SAFE HANDLING AND PROTECTION INFORMATION

Ventilation: Use local exhaust ventilation to control mists or vapors generated when using this product.
special - N/A other - N/A

Respiratory Protection: Use only with adequate ventilation. Do not use air-purifying respirator. Use only NIOSH/MSHA approved supplied or self-contained breathing apparatus operated in positive pressure mode, if exposure levels exceed the PEL/TLV.

Skin Protection: Protective clothing including gloves, aprons, sleeves, boots, head and face protection should be worn. Clean thoroughly after each use all the protective equipment.

Eye Protection: Wear safety glasses with side shield, splash goggles or face shield when possibilities exist for eye contact due to splashing or spraying, airborne particles or vapors. Contact lenses shall not be worn.

Other hygiene and work practices: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. promptly removed soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water.

SECTION VII- REACTIVITY DATA

Stability: Stable	Conditions to Avoid: Heat sparks, open flame, oxidizing conditions.	Incompatibility: (Materials to avoid) Strong oxidizing agents, Aluminum, Zinc (galvanized) or any other metals that will displace hydrogen, certain forms of plastics, rubber or rubber based coatings.
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Hazardous Decomposition Products - Excessive heating and or incomplete combustion will generate highly toxic carbon monoxide and other toxic vapors, possibly formaldehyde.

Hazardous Polymerization - Not expected to occur.

SECTION VIII- SPILL OR LEAK PROCEDURES

Steps to be taken in case Material is Released or Spilled:

Extremely flammable liquid. Release causes an immediate fire/explosion hazard. remove all sources and safely stop flow of spill. Remove all non-essential personnel. Use proper protective equipment. Contain and prevent flow into sewers and public water. Blanket with an appropriate foam. restrict water use for clean up. This material is water soluble and may biodegrade. Comply with all applicable laws. Spills may need to be reported to the national Response center (800-424-8802). Spilled material and any contaminated water or soil may be hazardous to human or other life.

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Waste Disposal methods:

For large spills, recover most for reuse or recycling. Free liquid may be collected using explosion-proof diesel or vacuum pumps. Take up the small spills with sand or other non-combustible absorbent. Use registered transporters to move contaminated product/soil/water in D.O.T. approved containers. Dispose of materials at a licensed facility permitted to handle RCRA/OSHA 'Hazardous Waste'. Incineration is the recommended disposal method. Burn concentrated liquid in systems compatible with water soluble wastes. Avoid flameouts. Biodegradation may be used on dilute aqueous waste. Assure emissions and effluent comply with all applicable laws.

SECTION IX- SPECIAL PRECAUTIONS

1. Keep out of reach of children.
2. For professional and industrial use only.
3. Do not handle until manufacturer's safety precautions have been read and understood.
4. Use only with adequate ventilation.
5. Do not take internally.
6. Avoid contact with eyes and skin.
7. Wash thoroughly after using. Practice safe hygiene principles.
8. Additional Technical Data Sheets and/or M.S.D.S.'s are available upon request.

THE RECOMMENDATIONS AND INFORMATION PROVIDED HEREIN ARE BELIEVED TO BE ACCURATE AS THE DATE HEREOF, HOWEVER, SUCH INFORMATION AND RECOMMENDATIONS ARE PROVIDED WITHOUT WARRANTY OF ANY KIND AND ASPHALT SEALERS, INC. DISCLAIMS ANY AND ALL LIABILITY OR LEGAL RESPONSIBILITY FOR USE AND RELIANCE UPON THE SAME.