MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL IDENTIFICATION

Name: Hartland Windshield Solvent  
CAS No. 67-56-1  
Description: Methyl Alcohol; Wood Alcohol; Methanol  
Rev 05-15-2014  
Pre-Mix: 50-60% Water / 40-50% Methyl Alcohol / <1% Blue Dye

Other Designations  
Distributor  
24 Hour Emergency Contact  
Window Wash  
Hartland Lubricants & Chemicals  
PERS Professional Emergency Resource Services  
Solvant  
2455 Commercial Drive  
Windshield Wash  
Sparta, WI 54656  
Call 1-800-633-8253

SECTION 2: HEALTH HAZARD DATA

Eye Contact: Liquid and vapor in high concentrations, may cause irritation, tearing, a burning sensation and eye injury that may persist for several days.  
Skin contact: Repeated or prolonged contact causes drying, cracking and irritation.  
Inhalation: Very high levels cause stupor, nausea, dizziness and unconsciousness.  
Ingestion: Poisonous. Can cause mental sluggishness, nausea, vomiting leading to severe illness, blindness and possibly death.  

FIRST AID

EYE CONTACT: Flush with clean water for 15 minutes or until irritation subsides. Seek immediate medical attention.  
SKIN CONTACT: Remove contaminated clothing. Wash with soap and water. If irritation or redness persists, seek medical attention.  
INHALATION: Remove to fresh air. If not breathing, use artificial respiration. If breathing difficulties develop, administer oxygen.  
INGESTION: Give 2 Glasses of water. Induce vomiting of conscious patient immediately. Contact physician immediately.

SECTION 3: HAZARDOUS INGREDIENTS

Methanol-CAS # 67-56-1  
TLV (Units) OSHA FINAL & ACGIH: 200 PPM 1WA  
Skin 260 mg / m3  
Potential contribution to overall exposure possible via skin absorption. Immediately dangerous to life and health at 25,000 PPM  
NOTE: Exposure Limits for Methanol given.

SECTION 4: SPECIAL PROTECTION AND PRECAUTION

~ POISON-DANGER ~  
MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. COMBUSTIBLE VAPOR HARMFUL. CONTAINS METHYL ALCOHOL. CANNOT BE MADE NON-TOXIC.  
Keep containers tightly closed. Use and store this product with adequate ventilation. Avoid inhalation of vapors, personal contact with the product and use near flame or heat. Use only DOT approved containers.
SECTION 5: TRANSPORTATION AND REGULATORY DATA

DOT Proper Shipping Description: Methanol, 3 Flammable Liquid, UN 1230, PG II
DOT Hazard Class (if applicable): Not applicable.

SECTION 6: SPILL OR LEAK PROCEDURES

Keep out of drains, sewers or waterways. Avoid eye or skin contact. Place leaking containers in well ventilated area. If fire potential exists, blanket spill with foam or use water spray to disperse vapors. Contain spill to minimize contaminated area and facilitate salvage or disposal. To clean up spill, flush area sparingly with water or use an absorbent. Dispose of product in accordance with local, county, state, and federal regulations.

SECTION 7: REACTIVITY DATA

Chemical Stability: Stable.
Conditions to Avoid: Heat, sparks, flame, and static electricity.
Incompatible Materials: Sulfuric acid, oxidizing agents such as bleach, hydrogen peroxide, nitric acid, perchloric acid, and chromium trioxide.
Decomposition Products: Carbon Monoxide.
Hazardous Polymerization: Will not occur.

SECTION 8: FIRE AND EXPLOSION DATA

Small Fires: Use CO2 or dry chemical.
Large Fires: Use alcohol-type aqueous film-forming foam or water spray. Water may be ineffective but should be used to cool fire — exposed structures and vessels. Fire Fighting Procedures: Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to vapors or products of combustion exists. Water spray can be used to reduce intensity of flames and to dilute spills to nonflammable mixture. Vapor is heavier than air and can travel considerable distance to a source of ignition and flashback. Methanol can burn with little or no visible flame.

SECTION 9: PHYSICAL DATA

PRE-MIX DATA:
Boiling Point: No data
Specific Gravity: No data
Solubility in Water: 100%
Appearance & Odor: Clear, Light Blue Liquid, Methanol Odor
Flash Point: 77°F Method: Pensky Marten Closed Cup
70°F Method: Tag Open Cup

Data supplied is for use only with occupational safety and health.
SECTION 10: STABILITY AND REACTIVITY

Chemical Stability
Stable under ordinary conditions of use and storage. Heat will contribute to instability.

Conditions to Avoid
Heat, flames, ignition sources and incompatibles.

Incompatible Materials
Strong oxidizing agents such as nitrates, perchlorates or sulfuric acid. Will attack some forms of plastics, rubber, and coatings. May react with metallic aluminum and generate hydrogen gas.

Hazardous Decomposition Products
May form carbon dioxide, carbon monoxide, and formaldehyde when heated to decomposition.

Polymerization
Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Methyl Alcohol (Methanol) Oral rat LD50: 5628 mg/kg; Inhalation rat LC50: 64000 ppm/4H; skin rabbit LD50: 15800 mg/kg; Irritation data-standard Draize test: skin, rabbit: 20mg/24 hr. Moderate; eye, rabbit: 100 mb/24 hr. Moderate: Investigated as a mutagen, reproductive effector.

WARNING!
Poison! Danger! Vapor Harmful, May be Fatal if Swallowed or Cause Blindness. Harmful if inhaled or absorbed through skin. Cannot be made non-poisonous. Flammable Liquid and Vapor. Causes irritation to skin, eyes and respiratory tract. Affects central nervous system and liver.

Potential Health Effects

Inhalation
A slight irritant to the mucous membranes. Toxic effects exerted upon nervous system, particularly the optic nerve. Once absorbed into the body, it is very slowly eliminated. Symptoms of overexposure may include headache, drowsiness, nausea, vomiting, blurred vision, blindness, coma and death. A person may get better but then worse again up to 30 hours later.

Ingestion

Skin Contact
Methyl alcohol is a defatting agent and may cause skin to become dry and cracked. Skin absorption can occur; symptoms may parallel inhalation exposure.

Eye Contact
Irritant. Continued exposure may cause eye lesions.

Chronic Exposure
Marked impairment of vision has been reported. Repeated or prolonged exposure may cause skin irritation.

Aggravation of Pre-existing Conditions
Persons with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of the substance.
SECTION 12: ECOLOGICAL INFORMATION

Environmental Fate
When released into the soil, this material is expected to readily biodegrade. When released in the soil, this material is expected to leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into the water, this material is expected to have a half-life between 1 and 10 days. When released into water, this material is expected to readily biodegrade. When released into the air, this material is expected to exist in the aerosol phase with a short half-life. When released into the air, this material is expected to be readily degraded by reaction with photo-chemically produced hydroxyl radicals. When released into air, this material is expected to have a half-life between 10 and 30 days. When released into the air, this material is expected to be readily removed from the atmosphere by wet deposition.

Environmental Toxicity
This material is expected to be slightly toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14: TRANSPORT INFORMATION

US DOT (ground)
Proper Shipping Name: METHANOL / WINDSHIELD WASH PRE-MIX
Hazard Class: 3
UN/NA: UN1230
Packing Group: PGII
Marine Pollutant: No
RQ Amount: 5000 lbs

IMDG (water)
Proper Shipping Name: METHANOL / WINDSHIELD WASH PRE-MIX
Hazard Class: 3
UN/NA: UN1230
Packing Group: PGII
Marine Pollutant: No
RQ Amount: 5000 lbs

SECTION 15: REGULATORY INFORMATION

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<td>No</td>
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<td>5000 lbs</td>
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SECTION 16: OTHER INFORMATION

This MSDS is provided as an information resource only. It should not be taken as a warranty or representative for which we assume legal liability. While we believe the information contained herein is accurate and compiled from sources believed to be reliable, it is the responsibility of the user to investigate and verify its identity. The buyer assumes all responsibility for using and handling the product in accordance with applicable international, federal, state and local regulations.