

\*\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*\*

Latest Revision Date...02/14/95  
Print Date.....02/14/95

Windshield Washer Solvent

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME..... Windshield Washer Solvent  
 MANUFACTURER'S NAME..... HVC Inc.  
 COMPANY ADDRESS..... 4600 Dues Drive  
 Cincinnati, Ohio 45246  
 COMPANY PHONE NUMBER..... (513)-874-9261  
 SYNONYMS..... None.  
 HAZARD RATING (HMIS)..... 2-Health  
 1-Flammability  
 0-Reactivity  
 HMIS DESIGNATION KEY..... N.A.

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SECTION 2 HAZARDOUS INGREDIENTS / HAZARD DATA

CHEMICAL NAME(S)	CAS REGISTRY NO.	% WT	TWA (ppm)	STEL (ppm)	SOURCE	CARCIN OGEN?
Methanol	67-65-1	31	200	250	OSHA	No

SECTION 3 PHYSICAL DATA

BOILING POINT @ 760 mm Hg, °F... Approx 180  
 FREEZING POINT, °F..... -20  
 pH..... Not applicable  
 PERCENT VOLATILE BY WEIGHT (%).. 35  
 SPECIFIC GRAVITY OR BULK DENSITY .930  
 SOLUBILITY IN WATER..... 100%  
 APPEARANCE AND ODOR..... Clear, blue liquid with alcohol odor.  
 VAPOR PRESSURE mm Hg @20° C..... Estimated at 46mm Hg.  
 VAPOR DENSITY (Air = 1)..... Approximately 1  
 EVAPORATION RATE (BuAc = 1)..... 2.13

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT °F (Test Method).... 118 (Tag open cup)  
 AUTOIGNITION TEMPERATURE..... Not determined  
 FLAMMABILITY LIMITS IN AIR (% V) Lower 2.0 Upper 14.0  
 EXTINGUISHING MEDIA..... Use water fog, foam, dry chemical or carbon dioxide.  
 SPECIAL FIRE FIGHTING PROCEDURES Full protective clothing and self-contained breathing apparatus should be worn by all fire personnel. Cool fire exposed containers with water.

Windshield Washer Solvent

SECTION 4

FIRE AND EXPLOSION HAZARD DATA

CONT'D

UNUSUAL FIRE & EXPLOSION HAZARDS Decomposition or burning of product can produce hazardous gases or vapors. Containers exposed to heat may build sufficient pressure that can cause container rupture.

SECTION 5

HEALTH HAZARD DATA \* EFFECTS OF OVEREXPOSURE

SKIN CONTACT..... Prolonged or widespread exposure of skin may result in the absorption of harmful amounts of methanol. Prolonged contact may also cause reddening and defatting of the skin.

EYE CONTACT..... May cause mild redness and swelling of the conjunctiva, with transient superficial injury of the cornea.

INHALATION..... May cause dizziness, drowsiness, disturbances of vision, and tingling, numbness, and shooting pains in the hands forearms.

INGESTION..... Nausea, abdominal pain, vomiting, headache, dizziness, shortness of breath, weakness, fatigue, leg cramps, restlessness, confusion, drunken behavior, visual disturbances, drowsiness, coma, and death may occur on overexposure. There may be a delay of several hours between exposure and onset of symptoms. Massive overdoses have caused liver, kidney and heart muscle damage.

ACUTE EFFECTS OF OVEREXPOSURE... As noted above.

CHRONIC EFFECTS OF OVEREXPOSURE. Long term repeated exposure to methanol vapor concentrations of 3000 ppm or greater may allow a cumulative effect to occur with resulting nausea, vomiting, headache, ringing in the ears, insomnia, trembling, unsteady gait, vertigo, clouded and doubled vision. Liver and/or kidney injury may occur.

SECTION 6

EMERGENCY AND FIRST AID PROCEDURES

SKIN..... Promptly wash with plenty of soap and water. Wash clothing before reuse. If irritation persists, get medical attention

Windshield Washer Solvent

SECTION 6

EMERGENCY AND FIRST AID PROCEDURES

CONT'D

EYES..... Immediately flush with plenty of water for at least 15 minutes while holding eyelids apart. Get medical attention.

INHALATION..... Remove to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Get medical attention if any symptoms persists.

INGESTION..... If conscious, give two glasses of water and induce vomiting. Get medical attention at once.

SPECIAL NOTES..... This product contains methanol which is toxic on ingestion.

SECTION 7

REACTIVITY DATA

PRODUCT STABILITY..... Product is stable under normal usage.  
 Conditions to Avoid..... Ignition sources such as sparks and open flames.

CHEMICAL INCOMPATIBILITY..... Alkali metals, concentrated nitric and sulfuric acids, aldehydes, acyl chlorides.

HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide may be formed on burning.

HAZARDOUS POLYMERIZATION..... Will not occur.

SECTION 8

SPILL OR LEAK PROCEDURES

SMALL SPILLS..... Flush with plenty of water to sewer or absorb on a suitable absorbent and place in a closed container for disposal. Extinguish and do not turn on any ignition sources until area is determined to be free from fire or explosion hazards.

LARGE SPILLS..... Contain spill if possible, contain with absorbent material and collect for reuse if possible. Otherwise collect and place in containers for proper disposal.

NEUTRALIZING MATERIALS..... Absorbents - clay, sand or commercial absorbents such as Hazorb.

WASTE DISPOSAL METHODS..... Follow all local, state, and federal regulations. Recommend all material be incinerated at an approved facility.

Windshield Washer Solvent

SECTION 9

SPECIAL PROTECTION INFORMATION

VENTILATION..... Use sufficient local ventilation to maintain exposure below the TLV's listed in section 2.

RESPIRATORY PROTECTION..... Use an NIOSH approved respirator for organic vapors if needed.

SKIN PROTECTION..... Chemical splash goggles.

OTHER PROTECTIVE EQUIPMENT..... Butyl or nitrile rubber gloves and apron. Other protection may be necessary depending on the method of handling.

SECTION 10

SECTION 313 SUPPLIER NOTIFICATION

<u>CAS #</u>	<u>CHEMICAL INGREDIENT</u>	<u>PERCENT (WT.)</u>
67-56-1	Methanol	31

SECTION 11

SHIPPING DATA

1. T. PROPER SHIPPING NAME..... Combustible liquid, n.o.s. (methanol)  
PG III

2. T. HAZARD CLASS..... Combustible

3. T. LABELS REQUIRED..... N.A.

4. NA CODE..... NA 1993

5. NET TABLE QUANTITY AMOUNT..... 14000 lbs.

SECTION 12

ADDITIONAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS Danger! Poison.  
Keep containers closed when not in use.  
Use only with adequate ventilation.  
Avoid excessive heat in storage and during use.  
Do not reuse empty containers until commercially cleaned of all residues.  
This product may generate flammable vapors at temperatures above its flash point, use caution when using this material at elevated temperatures.

OTHER PRECAUTIONS.....

SECTION 13

DISCLAIMER

IMPORTANT NOTICE..... The information contained herein is based on data available to use and is believed to be correct. However, HVC makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. HVC assumes no responsibility for injury from the use of the product described herein.

PREPARED BY:..... Allan T. Cowie

Product Code..... 116