



HVC WAS

MATERIAL SAFETY DATA SHEET

Product: WINDSHIELD WASHER SOLVENT
MSDS #: 3181
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company:
HVC, Inc.
4600 Dues Drive
Cincinnati, OH 45246
(513) 714-5242

Emergency Telephone Numbers:
*Transportation:
** Chem trec: (800) 424-9300
*Emergency Health & Safety Information:
** HVC Inc: (513) 714-5264

Product Name: Windshield Washer Solvent
Synonyms: Mechanics Pride windshield washer solvent

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name (s)	CAS registry No.	% WT	TWA (ppm)	STEL (ppm)	SOURCE	CARCIN OGEN?
Methanol	67-56-1	31	200	250(s)	OSHA	No

(s) - Skin notation

3. HAZARDS IDENTIFICATION

Primary Routes of Entry: Skin contact, eye contact, inhalation, ingestion

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 and forearms and at high levels death.

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3. HAZARDS IDENTIFICATION (cont'd)

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.

4. FIRST AID MEASURES

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

Eyes: Immediately flush with plenty of water for at least 5 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 persist.

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.

5. FIRE FIGHTING MEASURES

Flash Point (degrees F) and Test Method: 118 (Tag open cup)

Autoignition Temperature: N.D.

Flammability Limits in air (% v): Lower 2.0 Upper 14.0

Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide.

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5. FIRE FIGHTING MEASURES (cont'd)

Special Fire Fighting Procedure: Full protective clothing and self-contained breathing apparatus should be worn by all fire personnel. Cool fire exposed containers with water.

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.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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.

Other precautions: None known.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Use sufficient local ventilation to maintain exposure below the TLV's listed in Section 2.

Respiratory Protection: Use a NIOSH approved respirator for organic vapors if needed. If respirators are used, observe requirements of 29 CFR 19.0.134.

Eye Protection: Chemical splash goggles.

Other Protective Equipment: Butyl or nitrile rubber gloves and apron. Other protective clothing may be necessary depending on the method of handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point @ 760 mm Hg (degrees F): Approximately 180

Freezing Point (degrees F): -20

pH: N.A.

Percent volatile by weight (%): 100

Specific Gravity or bulk density: 0.952 (@ 20°C)

Solubility in Water: 100%

Appearance and odor: Clear, blue liquid with alcohol odor.

Vapor Pressure mm Hg @ 20 degrees C: Estimated at 6

Vapor Density (Air = 1): Approximately 1.0

Evaporation Rate (BuAc = 1): 1.13

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10. STABILITY AND REACTIVITY

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 and/or formaldehyde may be formed on burning.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

The following data is for the methanol component:

LD50 5.6 13.0 g/kg (oral-rat)

LC50 64,000 ppm (rat)

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Follow all local, state and federal regulations. Recommend all material be incinerated at an approved facility.

14. TRANSPORT INFORMATION

D.O.T. Proper Shipping Name: Combustible liquid, n.e.s. (methanol)

D.O.T. Hazard Class: Combustible

D.O.T. Labels Required: N.A.

UN/NA Code: NA 1993

Packaging Group: III

Reportable Quantity Amount: 16,129 lbs. of blend (methanol)

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15. REGULATORY INFORMATION

Section 313 Supplier Notification :

<u>CAS Registry No.</u>	<u>Chemical Ingredient</u>	<u>Percent Wt.</u>
67-56-1	Methanol	31

16. OTHER INFORMATION

Hazardous Material Identification System Rating (HMIS):

Health: 2
Flammability: 1
Reactivity: 0
Personal Protection: C

Reason for Issue: Revised sections 1, 14 and 16
Prepared by: Allan T. Cowie
Title: Technical Director
Approval Date: 03/27/00
Product Code(s): 3181

Disclaimer:

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.

N.A. = Not Applicable
 N.D. = Not Determined
 N.E. = Not Established

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