

CAM2 Windshield Washer Fluid



Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Version: WINwash.001

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: Windshield Washer Fluid

Product Grades: Concentrate, 0 °, -20°, +21°

Synonyms: Aqueous Methanol

1.2. Intended Use of the Product

Windshield Washer Fluid

1.3. Name, Address, and Telephone of the Responsible Party

Company

CAM2 International, LLC
683 Haining Road
Vicksburg, MS 39183
(800) 338-2262
www.CAM2.com

1.4. Emergency Telephone Number

Emergency Number 1-800-633-8253

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Flammable Liquid	3
Serious Eye Irritation	2A
Reproductive Toxicity	2
STOT – Single	1
STOT – Repeated	1

Full text of H-phrases: see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :



Signal Word (GHS-US) :

DANGER

Hazard Statements (GHS-US) :

H226 – Highly Flammable Liquid and Vapor
H319 – Causes Serious Eye Irritation
H361 – Suspected of damaging fertility or the unborn child
H370 – Causes Damage to Organs (organ/ exposure)
H372 – Causes Damage to organs (organ) through prolonged or repeated exposure

Precautionary Statements (GHS-US) :

Prevention –
P210 – Keep away from heat/sparks/open flames/ hot surfaces. No Smoking.
P233 – Keep Container tightly closed.
P240 - Ground/bond container and receiving equipment.

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Precautionary Statements (GHS-US) : P241 – Use explosion proof electrical/ventilating/lighting/equipment.
P242 – Use only non-sparking tools
P243 – Take precautionary measures against static discharge.
P280 – Wear protective gloves/ eye protection/ face protection/ body protection.
P264 – Wash hands thoroughly after handling.
P201 – Obtain special instructions before use.
P202 – Do not handle until all safety precautions have been read and understood.
P260 – Do not breathe mist, vapors, or spray.
P270 – Do not eat, drink, or smoke when using this product.

Response

P303 + P361 + P533 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
P370 + P378 – In case of fire: Use CO₂, or dry chemical to extinguish.
P305 + P351 + P338 –IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P337 + P313 – If eye irritation persists: Get medical attention/advice.
P308 + P313 – If exposed or concerned: Get medical attention/advice.
P308 + P311 – IF exposed or concerned: Call a POISON CENTER.
P321 – Specific treatment refer to the label or safety data sheet for further details.
P314 – Get medical advice or treatment if you feel unwell.

Storage

P403 + P235 – Store in well-ventilated place. Keep cool.
P405 – Store locked up.

Disposal

P501 – Dispose of contents/ container in accordance with all local/ regional/ national/ international regulations.

2.3. Other Hazards

None Known

2.4. Unknown Acute Toxicity (GHS-US)

None of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Water	(CAS No)	Balance	Not Classified
Methanol	(CAS No) 67-56-1	75 – 90, 18 – 29, 30 – 40, 8 - 18	Flammable Liquids, 2 Acute Tox, Oral, 3 Acute Tox, Dermal, 3 Acute Tox, Inhalation, 3 Serious Eye Damage/Irritation, 2A Reproductive Tox, 2 STOT, Single Exp, 1 STOT, Repeated, 1

*The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret within the meaning of



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the OSHA Hazard Communication Standard [29 CFR 1910.1200].

*More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where necessary, due to varying composition.

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists. Symptoms of exposure may include giddiness, intoxication, CNS depression, or coma.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water / shower for at least 15 minutes. Drench affected area with water or soap and water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

Eye Contact: IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing lifting upper and lower eyelids occasionally. Obtain medical attention if eye irritation persists.

Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Swallowing methanol is potentially lethal, symptoms of methanol poisoning can be delayed for 24 hours. If swallowed do not delay seek medical attention immediately.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Methanol poisoning

Inhalation: Overexposure may be irritating to the respiratory system. Symptoms of exposure may include giddiness, intoxication, CNS depression, or coma.

Skin Contact: Repeated or prolonged skin contact may cause irritation.

Eye Contact: Direct contact with the eyes is likely irritating.

Ingestion: Swallowing methanol is potentially lethal, symptoms of methanol poisoning can be delayed for 24 hours.

Chronic Symptoms: No other known significant effects or critical hazards.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible). Treat for methanol poisoning inhibit oxidation of methanol by administering ethanol or fomepizole. Increase formic acid metabolism by administering IV folinic acid. Treat acidosis with IV sodium bicarbonate.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use CO₂, dry chemical, water spray, aqueous film foaming foam type with 3% or 6% foam proportioning system for extinguishing the fire.

Unsuitable Extinguishing Media: General purpose synthetic foams or protein foams may work, but much less effectively. Water may be effective for cooling but may not be effective for extinguishing the fire because it may not cool methanol below its flashpoint.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Methanol burns with a clean, clear flame that is almost invisible in daylight.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Stay Upwind! Burns with a clean flame that is difficult to see in certain conditions. Vapors may travel long distances along the ground and may be ignited from distant sources.

Firefighting Instructions: Isolate and restrict area access. Concentrations greater than 25% methanol in water can be ignited. Use fine water spray to cool adjacent structures of containers. Contain fire control water for later disposal.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.



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Hazardous Combustion Products: Under fire conditions, may produce fumes, smoke, oxides of carbon and hydrocarbons.

Other Information: Refer to Section 9 for flammability properties.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

Flammable liquid – can burn without a visible flame.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE). Do not walk through spilled material. Ventilate if released in a confined area.

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Use an explosion proof pump to remove bulk material. Residual liquid can be absorbed on inert material. Use only Non SPARKING tools.

6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Do not store or handle at elevated temperatures. Any use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Oxidizers and strong acids or bases. Contact with these materials can cause violent or explosive reactions. May react with metallic aluminum or magnesium to generate explosive hydrogen gas.

7.3. Specific End Use(s)

Windshield Washer Fluid

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

OSHA TWA 200 PPM

ACGIH TWA 200 PPM

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OSHA STEL 250 PPM

ACGIH STEL 250 PPM

8.2. Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment: Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear butyl rubber or nitrile rubber protective gloves.

Eye Protection: Face shield or Chemical goggles when splashing may occur. If possible remove contact lenses before handling.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear, Blue
Odor	: Mild Alcoholic odor
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Boiling Point	: 82C / 180F
Flash Point	: 35C / 95F
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: 0.957
Specific Gravity	: Not available
Solubility	: Miscible in water, alcohol; insoluble in organic solvents
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available
Viscosity, Kinematic	: Varies by grade
Explosive Properties	: Vapors of this product may form explosive mixtures with air
Explosion Data – Sensitivity to Mechanical Impact	: Explosion hazard due to mechanical impact

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Explosion Data – Sensitivity to Static Discharge : Explosion hazard due to static discharge

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Has low vapor pressure – vapors may form explosive mixtures with air!
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Has low vapor pressure – vapors may form explosive mixtures with air!
- 10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.
- 10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. Hazardous Decomposition Products:** Primarily oxidizes to carbon dioxide in normal combustion conditions. In lower oxygen environments carbon monoxide, formaldehyde, or formic acid may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified

Eye Damage/Irritation: Serious Eye Irritation

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Causes Damage to Organs with repeated exposure. Central Nervous System, Eyes. Methanol poisoning produces metabolic acidosis (formic acid) that may damage the liver, kidney, or other organs.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child

Specific Target Organ Toxicity (Single Exposure): Causes Damage to Organs (organ/ exposure)

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Overexposure may be irritating to the respiratory system. Methanol can cause irritation of mucus membranes especially in concentrations that exceed 1000 ppm. Inhalation may be harmful or fatal. Symptoms include headaches, sleepiness, nausea, confusion, loss of consciousness, digestive and visual disturbances and even death.

Symptoms/Injuries After Skin Contact: Repeated or prolonged skin contact may cause irritation. May cause redness, drying, and cracking of the skin.

Symptoms/Injuries After Eye Contact: Direct contact with the eyes is likely irritating. Expected to cause mild to moderate eye irritation of the eye exposed to the liquid or in high vapor concentrations. May cause irritation, burning, or tearing of the eye.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. Toxic if ingested. Symptoms of methanol poisoning include headaches, sleepiness, nausea, confusion, intoxication, loss of consciousness, digestive and visual disturbances, coma or death. If ingested do not wait for symptoms to seek treatment.

Chronic Symptoms: Not Classified

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

LD50 Dermal

Rabbit 15800mg/kg

LD50 Inhalation

Cat 85.41mg/l, 4.5 hours

43.68mg/l, 6 hours

Rat 64000ppm, 4 hours

87.5mg/l, 6 hours



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LD50 Oral

Dog	8000mg/kg
Monkey	2g/kg
Rabbit	14.4g/kg
Rat	5628mg/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not toxic to aquatic life.

12.2. Persistence and Degradability

Not available

12.3. Bioaccumulative Potential

Not expected to bioaccumulate

12.4. Mobility in Soil

Not available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Sewage Disposal Recommendations: Do not empty into drains; dispose of this material and its container in a safe way. Do not empty into drains. Do not dispose of waste into sewer.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

Description shown may not apply to all shipping situations. Refer to applicable shipping codes for further clarification on any additional shipping requirements

- 14.1. In Accordance with DOT** UN No - UN1986
Proper Shipping Name – Alcohols, flammable, toxic, n.o.s. (Methanol solution)
UN Class - 3
Packing group – III
Marine Pollutant – No
Special Provisions – IB2, T7, TP2
Packaging Exceptions – 150
Packaging NON Bulk – 202
Packaging Bulk - 204
- 14.2. In Accordance with IMDG** UN No - UN 1986
Proper Shipping Name - Alcohols, flammable, toxic, n.o.s. (methanol solution)
UN Class 3(6.1)
Packing Group III
Stowage Cat. "A" (on deck or under deck)



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- 14.3. In Accordance with IATA** UN No - UN 1986
 Proper Shipping Name- Alcohols, flammable, toxic, n.o.s. (methanol solution)
 UN Class 3(6.1)
 Packing Group - III
 Passenger Aircraft – less than 60L
 Cargo Aircraft – less than 220L
- 14.4. In Accordance with TDG** Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

SARA Section 311/312 Hazard Classes	Immediate, Delayed, Health Hazard & Fire Hazard
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants	Methanol (CAS 67-56-1)
Clean Air Act (CAA) Section 112r Accidental Release Prevention	Not classified
Safe Drinking Water Act	Methanol (CAS 67-56-1) Contaminate Candidate list

15.2. US State Regulations

California Controlled Substances	Not listed
California Candidate Chemicals List Safer Consumer Products CAL Code Regs tit. 22, 69502.3 subd. (a)	Methanol (CAS 67-56-1)
California Proposition 65	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm
California Proposition 65	Methanol (CAS 67-56-1) Listed March 16, 2012
Massachusetts RTK – Substance list	Methanol (CAS 67-56-1)
New Jersey RTK	Methanol (CAS 67-56-1)
Pennsylvania RTK	Methanol (CAS 67-56-1)
Rhode Island RTK	Methanol (CAS 67-56-1)

15.3. Canadian Regulations

Listed on the Canadian DSL (Domestic Substances List)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 06/30/2015

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

H226	Highly Flammable Liquid and Vapor
H319	Causes Serious Eye Irritation
H361	Suspected of damaging fertility or the unborn child
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P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/ eye protection/ face protection/ body protection.
P264	Wash hands thoroughly after handling.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe mist, vapors, or spray.
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P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
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P308 + P311	IF exposed or concerned: Call a POISON CENTER.
P321	Specific treatment refer to the label or safety data sheet for further details.
P314	Get medical advice or treatment if you feel unwell.
P403 + P235	Store in well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local, regional, national, and international regulations.

Party Responsible for the Preparation of This Document

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS 2