

Signature® Premix Windshield Solvent

Safety Data Sheet



SECTION 1 IDENTIFICATION

Product Name: Signature® Premix Windshield Solvent -20°F

Distributor Information:

Parman Energy Corporation
7101 Cockrill Bend Blvd
Nashville, TN 37209
(800) 727-7920

Product Use: Windshield Wash Fluid

Emergency Phone Number:

PERS (800) 633-8253

SECTION 2 HAZARD(S) IDENTIFICATION

GHS-US Classification

Flam. Liq. 2	H225
Acute Tox. 4 (Oral)	H302
Acute Tox. 3 (Dermal)	H311
Acute Tox. 4 (Inhalation: dust, mist)	H332
STOT SE 1	H370

Full text of H-phrases: see section 16

GHS-US Labeling

Hazard pictograms (GHS-US)



Signal Word (GHS-US)

Danger

Hazard Statements (GHS-US)

Highly flammable liquid and vapor
Harmful if swallowed or if inhaled
Toxic in contact with skin
Causes damage to organs (May cause blindness if swallowed)
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep away from heat, hot surfaces, open flames, sparks. –No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical, lighting, ventilating equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Do not breathe mist, spray, vapors
Wash affected areas thoroughly after handling
Do not eat, drink or smoke when using this product

Precautionary Statements (GHS-US)

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Use only outdoors or in a well-ventilated area
Wear personal protective equipment as required
If Swallowed: Immediately call doctor/physician or poison center. Rinse mouth
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
If inhaled: Remove person to fresh air and keep comfortable for breathing
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Get medical advice/attention if you feel unwell
Take off immediately all contaminated clothing and wash it before reuse
In case of fire: Use Foam, Sand, Dry powder, Carbon dioxide to extinguish
Store in a well-ventilated place. Keep cool
Store locked up
Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations

There is no additional information available

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	Product Identifier	% by wt	GHS-US Classification
Methanol	(CAS No) 67-56-1	<33	Flam. Liq. 2 H225 Acute Tox. 4 (Oral) H301 Acute Tox. 3 (Dermal) H311 Acute Tox. 4 (Inhalation: dust, mist) H331 STOT SE 1 H370

SECTION 4 FIRST-AID MEASURES

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical advice. Allow the victim to rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin: Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Remove clothing before washing. Consult a doctor/medical service.

Eye Contact: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. Take victim to an ophthalmologist if irritation persists.

Ingestion: Obtain emergency medical attention. Rinse mouth. Never give anything by mouth to an unconscious person.

Symptoms and Effects:

Inhalation: May cause irritation of the nose and throat. High concentrations may cause acute central nervous system depression characterized by headaches, dizziness, nausea and confusion.

Skin: Prolonged exposure to skin may cause skin irritation experienced as burning, dryness, cracking, and redness.

Eye: May cause severe irritation

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Ingestion: May cause nausea, abdominal pain, headache, shortness of breath, visual impairment and blindness. Severe poisoning can lead to coma and death.

Chronic Symptoms: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Skin rash/inflammation. Headache. Feeling of weakness. Disturbed tactile sensibility. Visual disturbances. Sleeplessness. Gastrointestinal complaints. Cardiac and blood circulation effects.

This product contains methanol which can cause intoxication and depression of the central nervous system. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion.

SECTION 5 FIRE-FIGHTING MEASURES

Flammability of the product: In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing Media

Suitable: ABC powder. Foam. Dry powder. Carbon dioxide. Sand.

Not Suitable: Do not use a heavy water stream.

Special Exposure Hazards:

Fire Hazard: Flammable liquid and vapor. Vapors are heavier than air and may travel along the ground or may be moved by ventilation.

Explosion Hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Fire-Fighting Instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

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

Special Protective Equipment for Fire-Fighters: Wear positive pressure self-contained breathing apparatus (SCBA). Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves).

SECTION 6 ACCIDENTAL RELEASE MEASURES

General Measures: Remove ignition sources. Use special care to avoid static electric charges. Do not breathe vapor or mist. Wear appropriate respirator when ventilation is inadequate.

Emergency Procedures: Evacuate unnecessary personnel. Keep upwind. Mark the danger area.

For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

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

Methods and Material for Containment and Cleaning Up

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For Containment: Contain released substance, pump into suitable containers. Dam up the liquid spill. Plug the leak, cut off the supply. Try to reduce evaporation. Take account of toxic/corrosive precipitation water. Dilute combustible/toxic gases/vapors with water spray.

Methods for Cleaning Up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

See Heading 8. Exposure controls and personal protection.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling:

Additional Hazards when Processed: In use, may form flammable vapor-air mixture.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Hygiene Measures: Wash contaminated clothing before reuse.

Conditions for Safe Storage:

Technical Measures: Use explosion-proof electrical, lighting, ventilating equipment. Ground/bond container and receiving equipment. Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Keep only in the original container in a cool, well ventilated place away from : Heat sources, hot surfaces, open flames, sparks. Keep container closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies.

Incompatible Products: Keep away from strong acids, strong bases and oxidizing agents.

Incompatible Materials: Sources of Ignition.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol (67-56-1)

USA ACGIH	ACGIH TWA (ppm)	200.00 ppm (skin)
USA ACGIH	ACGIH STEL (ppm)	250.00 ppm (Skin)
USA ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea
USA OSHA	OSHA PEL (TWA) (mg/m ³)	260.00 mg/ m ³ (Skin)
USA OSHA	OSHA PEL (TWA) (ppm)	200.00 ppm (Skin)

Exposure Controls:

Personal Protective Equipment: Avoid all unnecessary exposure. Gloves. Safety glasses.

Hand protection: Wear protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation wear respiratory protection. Wear appropriate mask.

Other Information: Do not eat, drink, or smoke during use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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Attention: the data below are typical values and do not constitute a specification.

Physical State: Liquid
Color: Blue
Odor: Alcohol odor
Odor Threshold: No data available
Relative Evaporation Rate (butylacetate=1): Greater than n-butyl acetate
Freezing Point: No data available
Boiling Point: 80 – 83°C (177 - 181°F)
Flash Point: 34°C (94°F)
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapor Pressure: 43 mm Hg @ 20°C
Relative Vapor Density at 20°C: Heavier than air
Specific Gravity: 0.96 @ 20°C
Solubility: Water: Complete
Log Pow: No data available
Log Kow: No data available
Viscosity, Kinematic: No data available
Viscosity, Dynamic: No data available
Explosive Properties: No data available
Oxidizing Properties: No data available
Explosive Limits: 6 – 36 vol %

SECTION 10 STABILITY AND REACTIVITY

Reactivity: No additional information available
Chemical Stability: The product is stable
Possibility of Hazardous reactions: Hazardous polymerization will not occur
Conditions to Avoid: Sources of Ignition
Incompatibility With Other Materials: Keep away from strong acids, strong bases, and oxidizing agents.
Hazardous Decomposition Products: Fume. Carbon Monoxide. Carbon dioxide.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral: Harmful if swallowed. Dermal: Toxic in contact with skin. Inhalation: dust. Mist: Harmful if inhaled

Methanol (67-56-1)

LD50 oral rat	> 5,000 mg/kg (1187-2769 mg/kg bodyweight; Rat: Rat)
LD50 dermal rabbit	15,800 mf/kg (Rabbit)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	64,000 ppm/4h (Rat)
ATE US (oral)	100 mg/kg bodyweight
ATE US (dermal)	300 mg/kg bodyweight
ATE US (gases)	700 ppmv/4h

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ATE US (vapors) 3 mg/l/4h
ATE US (dust, mist) 1 mg/l/4h

Skin Corrosion/irritation: Not Classified

Serious Eye Damage/Irritation: Not Classified

Respiratory or skin sensitization: Not Classified

Germ Cell Mutagenicity: Not Classified

Carcinogenicity: Not Classified

Reproductive Toxicity: Not Classified

Specific Target Organ Toxicity (Single Exposure): Causes damage to organs (May cause blindness if swallowed).

Specific Target Organ Toxicity (Repeated Exposure): Not Classified

Aspiration Hazard: Not Classified

Symptoms/Injuries after Inhalation: May cause irritation of the nose and throat. High concentrations may cause acute central nervous system depression characterized by headaches, dizziness, nausea and confusion.

Symptoms/Injuries after Skin Contact: Prolonged exposure to skin may cause skin irritation experienced as burning, dryness, cracking, and redness.

Symptoms/Injuries after Eye Contact: May cause severe irritation.

Symptoms/Injuries after Ingestion: May cause nausea, abdominal pain, headache, shortness of breath, visual impairment, and blindness. Severe poisoning can lead to coma and death.

Chronic Symptoms: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Skin rash/inflammation. Headache. Feeling of weakness. Disturbed tactile sensibility. Visual disturbances. Sleeplessness. Gastrointestinal complaints. Cardiac and blood circulation effects.

SECTION 12 ECOLOGICAL INFORMATION

TOXICITY

Methanol (67-56-1)	
LC50 fish 1	15,400 mg/l (96 h; Lepomis macrochirus; Lethal)
EC50 Daphnia 1	>10,000 mg/l (48 h; Daphnia magna; Lethal)
LC50 fish 2	10,800 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	24,500 mg/l (48 h; Daphnia magna)
Threshold limit other aquatic organisms 1	6,600 mg/l (16h; Pseudomonas putida)
Threshold limit algae 1	530 mg/l (192 h; Microcytis aeruginosa)
Threshold limit algae 2	8,000 mf/l (168 h; Scenedesmus quadricauda)

Persistence/degradability:

Methanol	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.6 – 1.12 g O ₂ /g substance
Chemical oxygen demand (COD)	1.42 g O ₂ /g substance
ThOD	1.5 g O ₂ /g substance
BOD (5 of ThOD)	0.8% ThOD

Bioaccumulative Potential

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Methanol	
BCF fish 1	<10 (Leuciscus idus)
Log Pow	-0.77 (Experimental value; Other experimental value; other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Mobility in Soil

Methanol	
Surface tension	0.023 N?m (20°C)

Other Adverse Effects:

Effect on Ozone Layer: No known effect on the ozone layer
Effect on Global Warming: No known ecological damage caused by this product
Other Information: Avoid release to the environment.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.

Ecology – Waste Materials: Avoid release to the environment.

SECTION 14 TRANSPORT INFORMATION

In accordance with DOT Transport document description: UN1993 Flammable liquids, n.o.s. Methanol, 3, III

UN-No. (Dot): 1993

DOT NA no.: UN1993

Proper Shipping Name (DOT): Flammable liquids, n.o.s. Methanol

Department of Transportation (DOT) Hazard Classes: 3 – Class 3 – Flammable and combustible liquid 49 CFR 173.120

Hazard Labels (DOT): 3 – Flammable Liquid

DOT Symbols: G – Identifies PSN requiring a technical name

Packing Group (DOT): III – Minor Danger

DOT Packaging Exceptions (49 CFR 173.XXX): 150

DOT Packaging Non Bulk (49 CFR 173.XXX): 203

DOT Packaging Bulk (49 CFR 173.XXX): 242

DOT Quantity Limitations Passenger Aircraft/rail (49 CFR 173.27): 60 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 220 L

DOT Vessel Stowage Location: A- The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

Other Information: In inner packaging no more than 5.0 L: Proper Shipping Name: Limited Quantity of Class III Per 49 CFR Part 173.10 (PG III, inner packaging no more than 5.0L)

Transport by Sea:

UN-No. (IMDG): 1993

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Proper Shipping Name (IMDG): FLAMMABLE LIQUID, N.O.S. (Methanol)

Class (IMDG): 3 – Flammable Liquids

Packing Group (IMDG): III – substances presenting low danger

Limited Quantities (IMDG): In Non-Bulk quantities with inner packaging no more than 5.0 L: Proper Shipping Name: Dangerous Goods in Limited Class 3 (Windshield Wash Containing Methanol) Packages or pallets must be marked “Dangerous Goods in Limited Quantities of Class 3” Outer Package cannot weigh more than 30 kg.

Air Transport:

UN-No.(IATA): 1993

Proper Shipping Name (IATA): FLAMMABLE LIQUID, N.O.S. (Methanol)

Class (IATA): 3 – Flammable Liquids

Packing group (IATA): III – Minor Danger

Instruction “passenger” – Limited quantities (ICAO): Y309 (Max qty. per package 10L) Special Provision A3

SECTION 15 REGULATORY INFORMATION

US Federal Regulations:

EPA TSCA Regulatory Flag

Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed

SARA Section 302 Threshold Planning Quantity (TPQ)

None

SARA Section 311/312 Hazard Classes

Delayed (chronic) health hazard
Fire hazard
Immediate (acute) health hazard

SARA Section 313 – Emission Reporting

33% (Methanol CAS # 67-56-1)

Methanol (67-56-1)

Listed on the United States TSCA (Toxic Substances Control Act) Inventory

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA’s List of Lists) 5,000 lb(s)

International Regulations:

WHMIS Classification:

Class B Division 2 – Flammable Liquid

Class D Division 1 Subdivision A – Very toxic material causing immediate and serious toxic effects



Class B Division 2 – Flammable Liquid



Class D Division 1 Subdivision A – Very toxic material causing immediate and serious toxic effects

EU-Regulations:

No additional information available

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Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]: Not Classified

National Regulations

DSL (Canada): The intentional ingredients of this product are listed

ECL (South Korea): The intentional ingredients of this product are listed

EINECS (Europe): The intentional ingredients of this product are listed

ENCS (Japan): The intentional ingredients of this product are listed

Methanol (67-56-1)

U.S. – California – Proposition 65 – Carcinogens List	U.S. – California – Proposition 65 – Developmental Toxicity	U.S. – California – Proposition 65 – Reproductive Toxicity - Female	U.S. – California – Proposition 65 – Reproductive Toxicity – Male	No Significance Risk Level (NSRL)
No	Yes	No	No	

Methanol (67-56-1)

U.S. – Massachusetts – Right to Know List

U.S. – New Jersey – Right to Know Hazardous Substance List

U.S. – Pennsylvania – RTK (Right to Know) List

SECTION 16 OTHER INFORMATION

Full text of H-phrases:

Acute Tox. 3 (Dermal)	Acute Toxicity (Dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute Toxicity (Inhal.), Category 3
Acute Tox. 3 (Oral)	Acute Toxicity (Oral), Category 3
Acute Tox. 4 (Inhalation: dust, mist)	Acute Toxicity (Inhalation: dust, mist) Category 4
Acute Tox. 4 (Oral)	Acute Toxicity (Oral), Category 4
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 1	Specific target organ toxicity – single exposure, Category 1
H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H332	Harmful if inhaled
H370	Causes damage to organs

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NFPA Health Hazard	1 – Exposure could cause irritation but only minor residual injury even if no treatment is given.	
NFPA Fire Hazard	3 – Liquids and solids that can be ignited under almost all ambient conditions	
NFPA Reactivity	0 – Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS III Rating		
Health	2 Moderate Hazard – Temporary or minor injury may occur	
Flammability	2 Moderate Hazard	
Physical	0 Minimal Hazard	
Personal Protection	A	

Parman Energy makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity, and suitability of his own use, handling, and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Parman Energy as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Parman Energy assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

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