



SAFETY DATA SHEET

Rev. Date: 11/3/2015
SDS #: DR-25W/W-55

-25° Winter Windshield Wash

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Winter Windshield Wash
Alternate Trade Names:
Primary Use: Cleaning and De-Icing Windshields

MANUFACTURER
HAJ Inc. dba Christenson Oil
PO Box 10424
Portland, OR 97296-0424
(503) 478-9905 Telephone
(800) 553-8739 Toll Free

24 HR EMERGENCY CONTACT NUMBER
CHEMTREC (US TRANSPORTATION)
1-800-424-9300

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

OSHA/HCS Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture

FLAMMABLE LIQUIDS - Category 3
ACUTE TOXICITY (oral) - Category 3
ACUTE TOXICITY (dermal) - Category 3
ACUTE TOXICITY (inhalation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (single exposure) - Category 1

Signal Word:

Danger

Hazard Statement:

H226 Flammable liquid and vapor
H331 Toxic if inhaled
H311 Toxic in contact with skin
H301 Toxic if swallowed
H370 Causes damage to organs

GHS Symbol:



Precautionary Statements:

Prevention

P102 Keep out of reach of children



SAFETY DATA SHEET

Rev. Date: 11/3/2015
SDS #: DR-25W/W-55

-25° Winter Windshield Wash

P210 Keep away from heat/sparks/open flame/hot surfaces - No Smoking
P233 Keep container tightly closed
P260 Do not breathe dust/fumes/gas/mist/vapors/spray
P264 Wash contaminated are of the body thouroughly after handling

Response

P331 Do not induce vomiting
P301 + P313 IF SWALLOWED: Immediately call a Poison Center or Doctor/Physician
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P321 Specific treatment (See First Aid Measures on Safety Data Sheet.)

Storage

P402+P404 Store in a dry place. Store in a closed container
P403 Store in a well ventilated place

Disposal

P501 Dispose of contents/container with compliance to federal, state and local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms:

Formula: Mixture

Molecular Weight: Variable

Component	CAS Number	Concentration
Methanol	67-56-1	36 - 38%

Comments: []

4. FIRST AID MEASURES

Eyes:

Move individual away into fresh air. Remove contact lenses if present and easy to do. Immediately flush eyes with large amounts of fresh water and continue flushing until irritation subsides. Seek medical advice/attention.

Inhalation:

If breathing difficulty exists, remove individual away from exposure and into fresh air. Seek medical attention. If breathing remains difficult, administer oxygen, keep person warm and quiet and seek immediate attention.

Skin:

Remove contaminated clothing. Wash contaminated area repeatedly with soap and water. Do not reuse clothing until thoroughly laundered. Seek medical attention for persistent irritation.



SAFETY DATA SHEET

Rev. Date: 11/3/2015
SDS #: DR-25W/W-55

-25° Winter Windshield Wash

Ingestion:

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth, place individual on the left side with head down and call emergency contacts. Contact a physician, medical facility or poison control center for advice about whether to induce vomiting. Do not leave individual unattended.

Skin Injection:

If product is injected into or under skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated by a physician as a surgical emergency. Even though initial symptoms from a high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of the injury.

5. FIREFIGHTING MEASURES

Flammable Class:

Flammable Liquid Class 3

Extinguishing Media:

Use drym chemical, foam, carbon dioxide (CO₂) or water spray or fog.

DO NOT USE water jet or water based fire extinguishers.

Hazards From Combustion:

Carbon monoxide, carbon dioxide, aldehydes, hydrocarbons, oxides of sulfur, nitrogen, phosphorus and other oxides may be products of combustion.

Explosion Hazards:

When heated above the flashpoint this material emits flammable vapors which, when mixed with air, can burn or be explosive. Runoff to sewer may create a fire or explosion hazard.

Fire Fighting Procedures:

Clear Fire are on all non-emergency personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus. Containers exposed to intense heat from fires should be cooled with large quantities of water to prevent weakening on container structure which could result in container rupture.

Fire Fighting Equipment:

The use of SCBA is recommended for firefighters

6. ACCIDENTAL RELEASE MEASURES

Small Spill:

Stop leak if without risk. Move containers from the spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill:



SAFETY DATA SHEET

Rev. Date: 11/3/2015
SDS #: DR-25W/W-55

-25° Winter Windshield Wash

Stop leak if without risk. Move containers from the spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible absorbent material e.g. sand, earth, coir, vermiculite, or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Water Spill:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

General Procedures:

Remove all sources of ignition and provide ventilation. Wear protective clothing as given in section 8. Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material with absorbent, such as coir, sawdust or vermiculite and sweep into containers for disposal using non-sparking equipment. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for proper disposal.

7. HANDLING AND STORAGE

General Procedures:

Keep away from heat, sparks and flame. Surfaces that are hot may ignite even liquid product in the absence of spark or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

Handling:

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash hands thoroughly with soap and water after handling.

Storage:

Store in a cool, dry, ventilated area with acid resistant floors and good drainage. Protect from physical damage. Keep out of direct sunlight and away from heat, water and incompatible materials. Do not wash out container and use it for other purposes.

Storage Temperature:

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

Incompatibilities:

Strong oxidizing agents, acids, halogens.

Comments:

KEEP OUT OF REACH OF CHILDREN. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



SAFETY DATA SHEET

Rev. Date: 11/3/2015
SDS #: DR-25W/W-55

-25° Winter Windshield Wash

American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV)

Ingredient Name

METHANOL

Exposure Limits

ACGIH TLV (United States, 6/2013). Absorbed Through Skin

STEL: 328 mg/m³ 15 minutes.

STEL: 250 ppm 15 minutes.

TWA: 262 mg/m³ 8 hours.

TWA: 200 ppm 8 hours.

NIOSH REL (United States, 4/2013). Absorbed through skin

STEL: 325 mg/m³ 15 minutes.

STEL: 250 ppm 15 minutes.

TWA: 260 mg/m³ 10 hours.

TWA: 200 ppm 10 hours.

OSHA PEL (United States, 2/2013)

TWA: 260 mg/m³ 8 hours.

TWA: 200 ppm 8 hours.

Appropriate Engineering Controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion proof ventilation equipment.

Personal Protective Equipment

Eyes and Face:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin:

Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory:

If exposure may or does exceed occupational exposure limits (se. 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

Protective Clothing:

Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required.

Work Hygiene practices:

Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.



SAFETY DATA SHEET

Rev. Date: 11/3/2015
SDS #: DR-25W/W-55

-25° Winter Windshield Wash

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance: Clear Blue Liquid

Color: Blue

Odor: Mild alcohol odor

pH: No data available

Percent Volatile: No data available

Flashpoint: Closed Cup: 34.4°C, (94°F)

Flammable Limits: LOWER: ~ 6.0 vol% UPPER: ~ 36.0 vol%

Autoignition Temperature: 464°C (867.2°F)

Vapor Pressure: No data available

Vapor Density: No data available

Boiling Point: 150 - 180°F

Freezing Point: -25°F

Melting Point: No data available

Solubility in Water: Easily soluble in cold and hot water

Evaporation Rate: Greater than n-Butyl Acetate

Density: 0.966 to 959

Specific Gravity: 0.9516 @ 70°F

(VOC): Approximately 32% by weight

10. STABILITY AND REACTIVITY

Reactivity:

Stable under normal temperatures and pressures

Chemical Stability:

Stable under normal temperatures and pressures

Possibility of Hazardous Reactions:

Under normal conditions of storage and use hazardous reactions will not occur

Conditions to Avoid:

Avoid heat, sparks, flame and contact with strong oxidizing agents.

Hazardous Decomposition Products:

None reported



SAFETY DATA SHEET

Rev. Date: 11/3/2015
SDS #: DR-25W/W-55

-25° Winter Windshield Wash

Incompatible Materials:

Oxidizing materials

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingredient Name	Result	Species	Dose	Exposure
Methanol	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Intraperitoneal	Rat	7529 mg/kg	-
	LD50 Intravenous	Rat	2131 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
	TDLo Oral	Rat	8 g/kg	-
	TDLo Intraperitoneal	Rat	3490 mg/kg	-
	TDLo Oral	Rat	3500 mg/kg	-
	TDLo Intraperitoneal	Rat	3000 mg/kg	-
	TDLo Oral	Rat	3g/kg	-
	LC50 Inhalation	Rat	64000 ppm	4 hours

Irritation/Corrosion

Ingredient Name	Result	Species	Score	Exposure
Methanol	Eyes-Moderate Irritant	Rabbit	-	24 hours 100mg
	Skin-Moderate Irritant	Rabbit	-	24 hours 20mg
	Eyes-Moderate Irritant	Rabbit	-	40mg

Sensitization

No data available

Carcinogenicity

No known significant effects or critical hazards

Specific Target Organ Toxicity (single exposure)

Ingredient Name	Category	Route of exposure	Target Organs
Methanol	Category 1	Not determined	Central nervous system (CNS) and gastrointestinal tract

Specific Target Organ Toxicity (repeated exposure)

No data available

Aspiration hazard

No data available

Information on the likely routes of exposure

Dermal contact. Eye contact. Ingestion

Potential Acute Health Effects

Eye Contact: No known significant effects or critical hazards
 Inhalation: Harmful if inhaled.
 Skin Contact: Harmful in contact with skin.



SAFETY DATA SHEET

Rev. Date: 11/3/2015
 SDS #: DR-25W/W-55

-25° Winter Windshield Wash

Ingestion Harmful if swallowed.

Numerical Acute Toxicity Estimates

Route	ATE Value
Oral	476.2 mg/kg
Dermal	1428.6 mg/kg
Eye Contact	14.29 mg/L

12. ECOLOGICAL INFORMATION

Toxicity

Ingredient Name	Result	Species	Exposure
Methanol	Acute EC50 2220-23400 mg/L Fresh Water	Daphnia - Water Flea - Daphnia obtuse - Neonate - <24 hrs	48 hours
	Acute EC50 13000000 - 13400000 µg/L Fresh Water	Fish - Rainbow trout, Donaldson trout - Oncorhynchus mykiss Juvenile 0.813g	96 hours
	Acute EC50 12700000 - 13700000 µg/L Fresh Water	Fish - Bluegill - Lepomis macrochirus - Juvenile 3.07g	96 hours
	Acute EC50 >10000000 µg/L Fresh Water	Daphnia - Water Flea - Daphnia Magna - 6 to 24 hours	48 hours
	Acute EC50 24500000 to 29350000 µg/L Fresh Water	Daphnia - Water Flea - Daphnia Magna - Larve - <24 hrs	48 hours
	Acute EC50 15500 mg/L Fresh Water	Fish - Bluegill - Lepomis macrochirus	96 hours
	Acute EC50 3289 to 4395 mg/L Fresh Water	Daphnia - Water Flea - Daphnia obtuse - Neonate - <24 hrs	48 hours
	Acute LC50 10000000 to 33000000 µg/L Marine Water	Fish - Hooknose - Agonus cataphractus - adult	96 hours
	Acute EC50 19 to 20 ml/L Fresh Water	Fish - Rainbow trout, Donaldson trout - Oncorhynchus mykiss Juvenile 0.813g	96 hours
	Acute LC50 250000 µg/L Marine Water	Crustaceans - Common shrimp - sand shrimp - Crangon Adult	48 hours
	Acute EC50 > 100000 µg/L Fresh Water	Fish - Fathead minnow Pimephales promelas Juvenile - 0.2 to 0.5g	96 hours
	Acute EC50 28000000 µg/L Marine Water	Fish - Bleak - Alburnus - 8 to 10 cm	96 hours
	Water	Fish - Bleak - Alburnus - 8 to 10 cm	96 hours
	Acute EC 50 15400000 to 17600000 µg/L Fresh Water	Fish - Bluegill - Lepomis macrochirus Juvenile 3.07g	96 hours
Acute EC50 20100000 to 20700000 µg/L Fresh Water	Fish - Rainbow trout, Donaldson trout - Oncorhynchus mykiss Juvenile 0.813g	96 hours	

Products of degradation:

Carbon Oxides (CO, CO₂) and water.

Bioaccumulative Potential

Ingredient Name	LogP _{ow}	BCF	Potential
Methanol	-0.77	<10	low



SAFETY DATA SHEET

Rev. Date: 11/3/2015
SDS #: DR-25W/W-55

-25° Winter Windshield Wash

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

All disposals must comply with federal, state and local regulations. Refer to state and local regulations. Do not dump into sewers, ground, or any body of water.

Empty Container:

KEEP OUT OF REACH OF CHILDREN. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.

RCRA/EPA Waste Information

Methanol	CAS # 67-56-1	Listed	Reference # U154
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14. TRANSPORT INFORMATION

UN Number:	UN1993
UN Proper Shipping Name:	Flammable Liquid, n.o.s.
Transport Hazard Class:	3
Primary Hazard Class/Division:	3
Packing Group:	III
Environmental Hazards:	No

Package sizes shipped in less than the product reportable quantity are not subject to the RQ transportation requirements.

Limited Quantity Exemption

15. REGULATORY INFORMATION:

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

EINECS: All components listed

DSL: All components listed

TSCA: All components of this product are on the TSCA inventory or are exempt from TSCA Inventory requirements under CFR 40 CFR 720.30.

SARA Hazard Categories:

SARA 311/312 Fire hazard
Immediate (acute) health hazard

SARA 313 Methanol CAS # 67-56-1, 10-30%

State Regulations

Massachusetts The following components are listed: Methanol



SAFETY DATA SHEET

Rev. Date: 11/3/2015
SDS #: DR-25W/W-55

-25° Winter Windshield Wash

New York The following components are listed: Methanol

New Jersey The following components are listed: Methanol

Pennsylvania The following components are listed: Methanol

California Safe Drinking Water and Toxic Information Act (Proposition 65)

This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

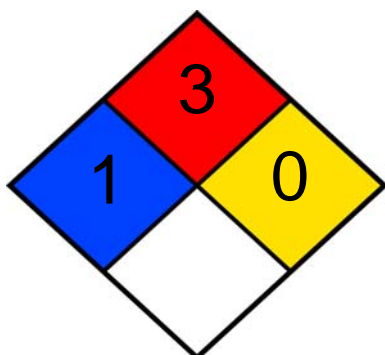
Ingredient Name	Reproductive	Cancer	Sig Risk Level	Max Dosage
Methanol	Yes	No	No	23000 µg/day ingestion
Methanol	Yes	No	No	47000 µg/day inhalation

NFPA Hazard Classification

Health: 1
Flammability: 3
Reactivity: 0

HMIS Classification:

Health: 1
Flammability: 3
Physical Hazards: 0
Personal Protection: B



HEALTH	1
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate. However, neither HAJ, Inc. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information provided herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described within, we cannot guarantee that these are the only hazards which exist. HAJ Inc. assumes no responsibilities for injuries from the use of the product described herein.