



Safety Data Sheet

Issue Date: 20-Apr-2012

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Version 1

1. IDENTIFICATION

Product Identifier

Product Name Autoguard Windshield Washer Fluid -20°F

Other means of identification

SDS # AG-011

Recommended use of the chemical and restrictions on use

Recommended Use Windshield Washer Fluid

Details of the supplier of the safety data sheet

Emergency Telephone Number

Company Phone Number 1-800-428-9284

Emergency Telephone (24 hr) CHEMTREC 1-800-424-9300 (North America) 1-703-527-3887 (International)

2. HAZARDS 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):

Hazard statements (GHS-US):

Danger

H225 – Highly flammable liquid and vapor

H302+H332 – Harmful if swallowed or if inhaled.

H311 – Toxic in contact with skin

H370 – Causes damage to organs. (May cause blindness if swallowed)

Precautionary statements (GHS-US):

P201 – Obtain special instructions before use

P202 – Do not handle until all safety precautions have been read and understood

P210 – Keep away from heat, hot surfaces, open flames, sparks. No smoking

P233 – Keep container tightly closed

P240 – Ground/bond container and receiving equipment

P241 – Use explosion-proof electrical, lighting, ventilating equipment

P242 – Use only non-sparking tools

P243 – Take precautionary measures against static discharge
 P260 – Do not breathe mist, spray, vapors
 P264 – Wash affected areas thoroughly after handling
 P270 – Do not eat, drink or smoke when using this product
 P271 – Use only outdoors or in a well-ventilated area
 P280 – Wear personal protective equipment as required
 P301+P310 – If swallowed: immediately call doctor/physician or poison center.
 Rinse mouth
 P303+P361+P353 – If on skin (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower
 P302+P352 – If on skin: wash with plenty of water
 P304+P340 – If inhaled: remove person to fresh air and keep comfortable for breathing
 P305+P351+P338 – If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P314 – Get medical advice/attention if you feel unwell
 P361+P364 – Take off immediately all contaminated clothing and wash it before reuse
 P370+P378 – In case of fire: use foam, sand, dry powder, carbon dioxide to extinguish
 P403+P325 – Store in a well ventilated place. Keep cool
 P405 – Store locked up
 P501 – Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/region/national/international regulations

Other hazards: No additional information available

Unknown acute toxicity (GHS-US): No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

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

4. FIRST-AID MEASURES

Description of 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)

First-aid measures after 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.

First-aid measures after skin contact: Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Remove clothing before washing. Consult with a doctor/medical service.

First-aid measures after 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 ophthalmologist if irritation persists.

First-aid measures after ingestion: Obtain emergency medical attention. Rinse mouth. Never give anything by mouth to an unconscious person.

Most important symptoms and effects

Symptoms/injuries after inhalation: May cause irritation of the nose and throat. High concentrations may cause central nervous system depression characterized by severe 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.

Indication of any immediate medical attention and special treatment needed

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.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

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

Unsuitable Extinguishing Media: Do not use a heavy water stream.

Special hazards arising from the substance or mixture

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.

Advice for firefighters

Firefighting 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 firefighting: 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).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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.

For non-emergency personnel

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

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.

Reference to other sections

See Section 8. Exposure controls and personal protection.

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, including any incompatibilities

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.

Specific end use(s)

No additional information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State:	Liquid
Color:	Blue
Odor:	Alcohol
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 %

Other information

VOC content: < 33.00 %

10. STABILITY AND REACTIVITY

Reactivity

No additional information available

Chemical Stability

Stable.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Sources of ignition.

Incompatible Materials

Keep away from strong acids, strong bases and oxidizing agents.

Hazardous Decomposition Products

Fume. Carbon dioxide. Carbon monoxide.

11. TOXICOLOGICAL INFORMATION**Information on toxicological effects****Acute toxicity:**

Oral: Harmful if swallowed. Dermal: Harmful 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 mg/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
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 version):

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 characterized by severe 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.

12. ECOLOGICAL INFORMATION

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

Persistence and degradability:

methanol (67-56-1)	
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 (% of ThOD)	0.8% ThOD

Bioaccumulative potential:

methanol (67-56-1)	
BCF fish 1	< 10 (<i>Leuciscus idus</i>)
Log Pow	-0.77 (Experimental value; Other, Experimental value; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500)

Mobility in soil:

methanol (67-56-1)	
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.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste disposal recommendations: 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.

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 3 – Class 3 – Flammable and combustible liquid 49 CFR 173.120
 Class
 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 150 173.xxx)
 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” on a cargo vessel and on a passenger vessel.
 Other Information: In inner packaging no more than 5.0L: Proper Shipping Name: Limited Quantity of Class III Per 49 CFR Part 173.10 (PG III, inner packaging no more than 5.0L).

ADR

No additional information available

Transport by sea

UN-No. (IMDG) 1993
 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 5.0L: 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 Y309 (Max qty. per package 10L) Special Provision A3

15. REGULATORY INFORMATION

US Federal Regulations

Autoguard Windshield Wash Fluid -20°F	
EPA TSCA Regulatory Flag	Toxic Substance 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)	5000 lb(s)

International regulations:

CANADA

Autoguard Windshield Wash Fluid 0°F	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 1 Subdivision A – Very toxic material causing immediate and serious toxic effects

WHMIS Classification



Class B Division 2
Flammable Liquid



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

EU-Regulations

No additional information available

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

Autoguard Windshield Wash Fluid -20°F
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.

US State regulations

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

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
SOTE 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
H312	Harmful in contact with skin
H331	Toxic if inhaled
H332	Harmful if inhaled
H370	Causes damage to organs

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

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet