1. IDENTIFICATION

Product Identifier
Product Name  Autoguard Windshield Washer Fluid 0°F

Other means of identification
SDS # AG-010

Recommended use of the chemical and restrictions on use
Recommended Use Windshield Wash 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

2. HAZARDS IDENTIFICATION

GHS-US Classification
Flam. Liq. 4 H227
Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Dermal) H312
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):
H227 – Combustible liquid
H302+H312+H332 – Harmful if swallowed, in contact with skin or if inhaled.
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
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
P280 – Wear personal protective equipment as required
P301+P310 – If swallowed: immediately call doctor/physician or poison center.
Rinse mouth
<table>
<thead>
<tr>
<th>Substance</th>
<th>Product Identifier</th>
<th>% by wt</th>
<th>GHS-US Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol</td>
<td>(CAS No.) 67-56-1</td>
<td>&lt;= 23</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 3 (Oral), H301</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 3 (Dermal), H311</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 3 (Inhalation), H331</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 1, H370</td>
</tr>
</tbody>
</table>

**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.


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

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. 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

<table>
<thead>
<tr>
<th>Methanol (67-56-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
</tr>
<tr>
<td>USA ACGIH</td>
</tr>
<tr>
<td>USA ACGIH</td>
</tr>
<tr>
<td>USA OSHA</td>
</tr>
<tr>
<td>USA OSHA</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Blue</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate butylacetate=1)</td>
<td>Greater than n-butyl acetate</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>84 - 85°C (184 – 186°F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>39°C (103°F) Method Used: Cleveland Open Cup</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>37.2 mm Hg @ 20°C</td>
</tr>
<tr>
<td>Relative vapor density at 20°C</td>
<td>Heavier than air</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.97 @ 20°C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water, Complete</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>6 – 36 vol %</td>
</tr>
</tbody>
</table>

Other information

VOC content: 23.00%

10. STABILITY AND REACTIVITY

Reactivity
No additional information available

Chemical Stability
Stable.

Possibility of Hazardous Reactions
Hazardous polymerization will not occur.

Conditions to Avoid
Keep away from ignition sources/sparks. Sources of ignition.
Incompatible Materials
Keep away from strong acids, strong bases and oxidizing agents.

Hazardous Decomposition Products

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)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt;5,000 mg/kg (1187-2769 mg/kg bodyweight; Rat; Rat)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>15,800 mg/kg (Rabbit)</td>
</tr>
<tr>
<td>LC50 inhalation rat</td>
<td>85 mg/l/4h (Rat)</td>
</tr>
<tr>
<td>LC50 inhalation rat</td>
<td>64,000 ppm/4h (Rat)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>100 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>300 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (gases)</td>
<td>700 ppmv/4h</td>
</tr>
<tr>
<td>ATE US (vapors)</td>
<td>3 mg/l/4h</td>
</tr>
<tr>
<td>ATE US (dust, mist)</td>
<td>1 mg/l/4h</td>
</tr>
</tbody>
</table>

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 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.

12. ECOLOGICAL INFORMATION

methanol (67-56-1)

<table>
<thead>
<tr>
<th></th>
<th>LC50 fish 1</th>
<th>EC50 Daphnia 1</th>
<th>LC50 fish 2</th>
<th>EC50 Daphnia 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>15,400 mg/l</td>
<td>&gt;10,000 mg/l</td>
<td>10,800 mg/l</td>
<td>24,500 mg/l</td>
<td></td>
</tr>
<tr>
<td>(96 h; Lepomis macrochirus; Lethal)</td>
<td>(48 h; Daphnia magna; Lethal)</td>
<td>(96 h; Salmo gairdneri (Oncorhynchus mykiss))</td>
<td>(48 h; Daphnia magna)</td>
<td></td>
</tr>
</tbody>
</table>

Threshold limit other aquatic organisms 1 6,600 mg/l (16 h; Pseudomonas putida)
Threshold limit algae 1 530 mg/l (192 h; Microcystis aeruginosa)
Threshold limit algae 2 8,000 mg/l (168 h; Scenedesmus quadricauda)

Persistence and degradability:

methanol (67-56-1)

<table>
<thead>
<tr>
<th>Persistence and degradability</th>
<th>Readily biodegradable in water, Biodegradable in the soil.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemical oxygen demand (BOD)</td>
<td>0.6 – 1.12 g O₂/g substance</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>1.42 g O₂/g substance</td>
</tr>
<tr>
<td>ThOD</td>
<td>1.5 g O₂/g substance</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
<td>0.8% ThOD</td>
</tr>
</tbody>
</table>

Bioaccumulative potential:

methanol (67-56-1)

| 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 (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
Not a dangerous good in sense of transport regulations
Other information Not regulated according to 49 CFR 173.116(b)(3).
ADR
No additional information available

Transport by sea
Limited quantities (IMDG) Limited Quantities of Class 3 (This must be notated on Shipper's Declaration).

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
(ICAO)

15. REGULATORY INFORMATION

US Federal Regulations
Autoguard Windshield Wash Fluid 0°F
EPA TSCA Regulatory Flag Toxic Substance Control Act (TSCA): The intentional ingredients of this product are listed.
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard
Delayed (chronic) health hazard
Fire hazard
SARA Section 313 – Emission Reporting 23% (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

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 0°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)
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

mthanol (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 (Dermal)                  | Acute toxicity (dermal), Category 4  |
| 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        |
| Flam. Liq. 4                           | Flammable liquids, Category 4        |
| SOTE SE 1                              | Specific target organ toxicity – single exposure, Category 1 |
| H225                                   | Highly flammable liquid and vapor    |
| H227                                   | Combustible liquid                   |
| 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

Issue Date: 20-Apr-2012
Revision Date: 29-May-2015
Revision Note: New format

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