1. IDENTIFICATION

Product Identifier
Product Name  Autoguard Gas Tank Treatment with Antifreeze
Other means of identification  N/A
SDS #  AG-020

Recommended use of the chemical and restrictions on use
Recommended Use  Gas Treatment

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

Physical hazards  Flammable liquids  Category 2
Health hazards  Acute toxicity, oral  Category 3
Acute toxicity, dermal  Category 3
Acute toxicity, inhalation  Category 3
Reproductive toxicity  Category 1B
Specific target organ toxicity, single exposure  Category 1
Specific target organ toxicity, repeated exposure  Category 1
Aspiration hazard  Category 1

Environmental hazards  Not classified
OSHA defined hazards  Not classified

Label elements

GHS02  GHS06  GHS08

Signal word  Danger

Hazard statement  Highly flammable liquid and vapor. Toxic if swallowed. May be fatal if swallowed and enters airways. Toxic in contact with skin. Toxic if inhaled. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.
Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Immediately call a poison center/doctor. Rinse mouth. DO NOT induce vomiting. 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 in a comfortable position for breathing. Call a poison center/doctor. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.

Storage

Store in well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal

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

Hazard(s) not otherwise classified (HNOC)

May be fatal or cause blindness if swallowed. Cannot be made nonpoisonous. May cause irritation of respiratory tract. Causes skin and eye irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Supplemental information

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHANOL</td>
<td></td>
<td>67-56-1</td>
<td>90-100</td>
</tr>
</tbody>
</table>

Specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn’t get into lungs.

First-aid measures after ingestion:

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

Most important symptoms/effects, acute and delayed

Dizziness. Headache, Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Permanent eye damage including blindness could result. Direct content with eyes may cause temporary irritation. Prolonged exposure may cause chronic effects.
**Indication of immediate medical attention and special treatment needed**

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information**

Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

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.

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**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other containments. Material will float and may ignite on surface of water. During the fire, gases hazardous to health may be formed. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**Special protective equipment and precautions for firefighters**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions**

In case of fire and/or explosion, do not breathe fumes. Move containers from fire area if you can do so without risk.

**Specific methods**

Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**

Highly flammable liquid and vapor.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid contact with eyes, skin and clothing. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions
Never return spills to original containers for re-use. For waste disposal, see Section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. HANDLING AND STORAGE

Precautions for safe handling:
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, “Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents” or National Fire Protection Association (NFPA) 77, “Recommended Practice on Static Electricity” or National Fire Protection Association (NFPA) 70, “National Electrical Code”.

Conditions for safe storage, including any incompatibilities
Store locked up. Keep away from heat, sparks and open flames. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits
**U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components           | Type | Value  \\
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>METHANOL (CAS 67-56-1)</td>
<td>PEL</td>
<td>260 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>250 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

**US NIOSH: Pocket Guide to Chemical Hazards**

| Components           | Type | Value  \\
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>METHANOL (CAS 67-56-1)</td>
<td>STEL</td>
<td>325 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>260 mg/m³</td>
</tr>
</tbody>
</table>

**Biological limit values**

<table>
<thead>
<tr>
<th>ACGIH Biological Exposure Indices</th>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHANOL (CAS 67-56-1)</td>
<td>15 mg/l</td>
<td>Methanol</td>
<td>Urine</td>
<td>*</td>
<td></td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source department.

**Exposure guidelines**

- **U.S. – California OELs: Skin designation**
  - METHANOL (CAS 67-56-1)
  - Can be absorbed through the skin.

- **U.S. – Minnesota Haz Subs: Skin designation applies**
  - METHANOL (CAS 67-56-1)
  - Skin designation applies.

- **U.S. – Tennessee OELs: Skin designation**
  - METHANOL (CAS 67-56-1)
  - Can be absorbed through the skin.

- **U.S. ACGIH Threshold Limit Values: Skin designation**
  - METHANOL (CAS 67-56-1)
  - Can be absorbed through the skin.

- **U.S. NIOSH Pocket Guide to Chemical Hazards: Skin designation**
  - METHANOL (CAS 67-56-1)
  - Can be absorbed through the skin.

**Appropriate engineering controls**

- Eye wash fountain and emergency showers are recommended. Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust and/or mist, use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines.

**Individual protection measures, such as personal protective equipment**

- **Eye/face protection**
  - Wear safety glasses with side shields (or goggles).

- **Skin protection**
  - **Hand protection**
    - Suitable chemical protective gloves should be worn when the potential exists for prolonged or repeated skin exposure. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Nitrile or butyl rubber gloves are recommended.

- **Other**
  - Wear appropriate chemical resistant clothing. Wear protective boots if the situation requires.

- **Respiratory protection**
  - If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.

- **Thermal hazards**
  - Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

- Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
- Physical state: Liquid
- Form: Liquid
- Color: Blue
- Odor: Alcohol
- Odor threshold: No data available
- Melting point/freezing point: -144 °F (-98°C)
- Initial boiling point and boiling range: 148 °F (64.7 °C)
- Flash point: 52°F (11.1 °C) CLOSED CUP
- Evaporation rate: > 1 (BuAc=1)
- Flammability (solid, gas): Not applicable

Upper/lower flammability or explosive limits
- Explosive limit – lower (%): 6%
- Explosive limit – upper (%): 36%

Other properties
- Vapor pressure: 99 mm Hg
- Vapor pressure temp.: 68 °F (20 °C)
- Vapor density: > 1 (AIR=1)
- Relative density: 0.79
- Relative density temperature: 68 °F (20 °C)
- Solubility(ies)
  - Solubility (water): SOLUBLE
- Partition coefficient: Not available
- Auto-ignition temperature: Not available
- Decomposition temperature: Not available
- Viscosity: Not available
- Kinematic viscosity: < 10 cSt
- Kinematic viscosity temperature: 104 °F (40 °C)
- VOC (Weight %): 99.9%

10. STABILITY AND REACTIVITY

Reactivity
- The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability
- Material is stable under normal conditions.

Possibility of hazardous reactions
- Hazardous polymerization does not occur.

Conditions to avoid
- Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials
- Strong acids. Strong oxidizing agents.

Hazardous decomposition products
- Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
- Inhalation: Toxic if inhaled. May cause damage to organs by inhalation. May cause damage to organs through prolonged or repeated exposure by inhalation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
- Skin contact: Toxic in contact with skin. Harmful if absorbed through skin. May be irritating to the skin.
- Eye contact: Direct contact with eyes may cause temporary irritation.
- Ingestion: Toxic if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. May be fatal or cause blindness if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics


Acute toxicity

May be fatal if swallowed and enters airways. Toxic if inhaled. Toxic in contact with skin.

Components

<table>
<thead>
<tr>
<th>Species</th>
<th>Calculated/Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal</td>
<td></td>
</tr>
<tr>
<td>Rabbit</td>
<td>15800 mg/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
</tr>
<tr>
<td>Cat</td>
<td>85.41 mg/l, 4.5 Hours</td>
</tr>
<tr>
<td></td>
<td>43.68 mg/l, 6 Hours</td>
</tr>
<tr>
<td>Rat</td>
<td>64000 ppm, 4 Hours</td>
</tr>
<tr>
<td></td>
<td>87.5 mg/l, 6 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td></td>
</tr>
<tr>
<td>Dog</td>
<td>8000 mg/kg</td>
</tr>
<tr>
<td>Monkey</td>
<td>2 g/kg</td>
</tr>
<tr>
<td>Mouse</td>
<td>7300 mg/kg</td>
</tr>
<tr>
<td>Rabbit</td>
<td>14.4 g/kg</td>
</tr>
<tr>
<td>Rat</td>
<td>5628 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation:
Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation:
Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization:
Not a respiratory sensitizer
Skin sensitization
This product is not expected to cause skin sensitization.

Germ cell mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001.1050)
Not listed.

Reproductive toxicity
May damage fertility or the unborn child.

Specific target organ toxicity (single version)
Causes damage to organs. Central nervous system. Liver. Optic nerves.

Specific target organ toxicity (repeated exposure)
Kidneys. Central nervous system. Liver. Optic nerves. Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
May be fatal if swallowed and enters airways

Chronic effects
Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Ecotoxicity

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Calculated/Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHANOL (CAS 67-56-1)</td>
<td>Water flea (Daphnia magna)</td>
<td>&gt; 10000 mg/l, 48 hours</td>
</tr>
<tr>
<td>Aquatic</td>
<td>Fathead minnow (Pimephales promelas)</td>
<td>&gt; 100 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential
Partition coefficient n-octanol / water (log Kow)
METHANOL - 0.77

Mobility in soil
No data available.

Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Disposal instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations
Dispose in accordance with all applicable regulations.

Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

IDOT
<Unspecified>
UN number UN1230
UN proper shipping name METHANOL
Transport hazard class(es) Class 3
   Subsidiary risk -
   Label(s) 3
Packing group II
Specific precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA
<Unspecified>
UN number UN1230
UN proper shipping name METHANOL
Transport hazard class(es) Class 3
   Subsidiary risk 6.1, 6.2
   Label(s) 3, 6.1
Packing group II
Environmental hazards No
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Other Information
15. REGULATORY INFORMATION

US Federal Regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4)
METHANOL (CAS 6756-1) Listed

SARA 304 Emergency release notification
Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard – Yes
Delayed Hazard – Yes
Fire Hazard – Yes
Pressure Hazard – No
Reactivity Hazard – No

SARA 302 Extremely hazardous substance
Not listed
SARA 311/312 Hazardous chemical
No

SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS Number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHANOL</td>
<td>67-56-1</td>
<td>70 - 80</td>
</tr>
</tbody>
</table>

Other Federal Regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
METHANOL (CAS 67-56-1)

Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130)
Not regulated

Safe Drinking Water Act (SDWA)
Not regulated

US State regulations
U.S. California Controlled Substances, CA Department of Justice (California Health and Safety Code Section 11100)
Not listed

U.S. Massachusetts RTK – Substance List
METHANOL (CAS 67-56-1)

U.S. New Jersey Worker and Community Right-to-Know Act
METHANOL (CAS 67-56-1)

U.S. Pennsylvania Worker and Community Right-to-Know Law
METHANOL (CAS 67-56-1)

U.S. Rhode Island RTK
METHANOL (CAS 67-56-1)

U.S. California Proposition 65
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

International Inventories
All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

16. OTHER INFORMATION

HMIS III Rating:
Health: 3
Flammability: 3
Physical Hazard: 0

NFPA ratings
Health: 1
Flammability: 3
Instability: 0

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