1. IDENTIFICATION

Product Identifier
Product Name: Autoguard ISO Dry Gas Line Antifreeze

Other means of identification
SDS #: AG-042

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

Details of the supplier of the safety data sheet
Supplier Address:
Warren Oil Company LLC
915 E. Jefferson
West Memphis, AR 72301

Emergency Telephone Number:
Company Phone Number: 1-800-428-9284
Emergency Telephone (24 hr): CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

GHS Hazards
- Flammable liquids Category 2
- Eye irritation Category 2A
- Specific target organ toxicity-single exposure Category 3 (Narcotic effects)

LABEL ELEMENTS

Hazard symbols

Signal word
Danger

Hazard statements
H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements
Prevention
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge
P280 Wear protective gloves/ eye protection/ face protection.
P264 Wash skin thoroughly after handling.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P271 Use only outdoors or in a well-ventilated area.

Response
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

Storage
P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
<td>100</td>
</tr>
</tbody>
</table>

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

4. FIRST-AID MEASURES

Eye contact 
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact 
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.

Inhalation 
Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

Ingestion 
If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES
Fire/explosion 
Vapors may form explosive mixture with air. Flash back possible over considerable distance. Use water spray to disperse the vapors. NFPA Class IB flammable liquid.

Suitable 
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Protective equipment and precautions for firefighters 
In the event of fire, wear self-contained breathing apparatus.

Further information 
Keep containers and surroundings cool with water spray. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up

Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13). Do not flush into surface water or sanitary sewer system.

7. HANDLING AND STORAGE

Safe handling advice

Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from heat and sources of ignition.

Storage/Transport pressure

Ambient

Load/Unload temperature

Ambient

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines). Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment.

PERSONAL PROTECTIVE EQUIPMENT

Eyes

Chemical resistant goggles must be worn. Face shield.

Skin

Wear suitable protective clothing, gloves and eye/face protection.

Inhalation

Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Exposure limit(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol</td>
<td>OSHA PEL 400 ppm 980 mg/m³</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV (8-hour) 200 ppm</td>
</tr>
<tr>
<td></td>
<td>ACGIH STEL 400 ppm</td>
</tr>
</tbody>
</table>

PEL = Permissible Exposure Limits  
TWA = Time Weighted Average (8 hr.)  
TLV = Threshold Limit Value  
STEL = Short Term Exposure Limit (15 min.)  
EL = Excursion Limit  
WEEL = Workplace Environmental Exposure Level

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Clear, colorless</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol-like</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>13 °C, 55 °F</td>
</tr>
</tbody>
</table>
| Flammability                    | Upper explosion limit: 19 % (V)  
                                   | Lower explosion limit: 3.3 % (V) |
| Boiling point/boiling range     | 82 °C, 180 °F |
| Melting point/range             | -92 °C, -134 °F |
| Auto-ignition temperature       | 363 °C, 685 °F |
| Decomposition temperature       | No data available |
| Flammability (solid, gas)       | No data available |
| Vapor pressure                  | No data available |
### 10. STABILITY AND REACTIVITY

**Reactivity**
Stable under recommended storage conditions.

**Chemical stability**
No decomposition if stored and applied as directed.

**Conditions to avoid**
Heat, flames and sparks. Avoid temperatures above 35°C, direct sunlight and contact with sources of heat.

**Hazardous decomposition products**
None known.

**Materials to avoid**
Strong acids and oxidizing agents
Alkali metals
Aluminum
Amines
Iron

**Hazardous polymerisation**
Vapors may form explosive mixture with air.

### 11. TOXICOLOGICAL INFORMATION

**Acute dermal toxicity**
LD50 rabbit: >2,000 mg/kg (literature value)

**Acute inhalation toxicity**
LC50 rat (8 hours): >20 mg/l (literature value)

**Acute oral toxicity**
LD50 rat: >2,000 mg/kg (literature value)

**Skin corrosion/irritation**
(rabbit)
Not irritating, (literature value)

**Eye damage/irritation**
(rabbit)
Irritating, (literature value)

**Respiratory or skin sensitization**
Guinea pig: not sensitizing; Buehler Test (literature value)
**Germ cell mutagenicity**

**Genotoxicity in vitro:**
- **Type:** Ames test
- **System:** Salmonella typhimurium; with and without metabolic activation
- **Result:** In vitro tests did not show mutagenic effects. (literature value)

**Genotoxicity in vivo:**
No data available

**Assessment Mutagenicity:**
Based on available data, the classification criteria are not met.

**Reproductive toxicity**

**Reproductive toxicity:**
No data available

**Assessment Reproductive toxicity:**
No data available

**Teratogenicity:**
No data available

**Assessment teratogenicity:**
No data available

**STOT – single exposure**
The substance or mixture is classified as specific target organ toxicant, single exposure, Category 3 with narcotic effects.

**STOT – repeated exposure**
- **Rat; Oral; 90-day;**
- **NOAEL:** 17,730 mg/kg
- **LOAEL:** 3,160 mg/kg

Based on available data, the classification criteria are not met.

**Aspiration toxicity**
No data available

**Carcinogenicity**

**Assessment carcinogenicity:**
Contains no ingredient listed as a carcinogen.

### 12. ECOLOGICAL INFORMATION

**Toxicity to fish**
- **LC50 (Pimephales promelas (fathead minnow)) 96 hours:** >100 mg/l; flow-through test (literature value)

**Toxicity to aquatic invertebrates**
- **EC50 (Daphnia magna (Water flea)) 24 hours:** >100 mg/l; static test (literature value)

**Toxicity to algae**
- **EC50 (Scenedesmus quadricauda (Green algae)) 7 d:** >100 mg/l; static test (literature value)

**Chronic toxicity to fish**
No data available

**Chronic toxicity to aquatic invertebrates**
No data available

**Biodegradation**
Readily biodegradable

**BOD5 (5 d):** 53 %
(literature value)

**Bioaccumulation**
No bioaccumulation is to be expected (log Pow <= 4)

**Mobility in soil**
No data available
13. DISPOSAL CONSIDERATIONS

Waste code
D001 – Ignitability (RQ 100 LB). This product has the RCRA characteristic of ignitability. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification.

Disposal methods
Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

Empty containers
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. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

14. TRANSPORT INFORMATION

DOT
ORM-D Consumer Commodity

IATA
UN 1219, Isopropanol, 3, II

IMDG
UN 1219, Isopropanol, 3, II

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks
No data available

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA Hazards (HCS 1994)
Flammable liquid, Eye irritation

TSCA Inventory Listing
Components
2-Propanol
CAS-No.
67-63-0

SARA 302 Status
Components
CAS-No.
Weight percent
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Classification
“Fire hazard”, “Immediate (acute) health hazard”

SARA 313 Chemical
Components
CAS-No.
Weight percent
2-Propanol
67-63-0
100%

US EPA CERCLA Hazardous Substances (40 CFR 302)
Components
Reportable Quantity
Weight percent
None
INTERNATIONAL REGULATIONS

WHMIS Classification
- Class B, Division 2: Flammable liquid.
- Class D, Division 2, Subdivision B: Toxic material.

European Union
Classification according to Regulation (EU) 1272/2008.
- Flammable liquids, Category 2
- Eye irritation, Category 2
- Specific target organ toxicity – single exposure, Category 3 (Narcotic effects)

Australia. Inventory of Chemical Substances (AICS)  Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS) Listed
Japan. Industrial Safety & Health Law (ISHL) Inventory Listed
Canada. Domestic Substances List (DSL) Inventory Listed
Canadian Non-Domestic Substance Listing (NDSL) Not listed

European Inventory of Existing Commercial Chemical Substances (EINECS) Listing
- Listed

Philippines. Inventory of Chemicals / Chemical Substances (PICCS) Listed
Korea. Existing Chemicals Inventory (KECI) Listed
China. Inventory of Existing Chemical Substances (IECSC) Listed
Mexico. National Inventory of Chemical Substances (INSQ) Listed
New Zealand. Inventory of Chemicals (NZIoC) Listed
Switzerland. Inventory of Notified New Substances (CHINV) Listed
Taiwan. National Existing Chemical Inventory (NECI) Listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65
Components None
CAS-No

16. OTHER INFORMATION

HAZARD RATINGS

<table>
<thead>
<tr>
<th>HMIS®</th>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard/ Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA</td>
<td>2</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

Issue Date: 10-Nov-2016
Revision Date: N/A
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