SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form: Mixtures
Trade name: AUTOGUARD CARB CLEANER 12/13OZ
Product code: 701151

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: FOLLOW LABEL DIRECTIONS

1.3. Details of the supplier of the safety data sheet

Warren Oil Company, Inc.
2340 Highway 301 North
Dunn, NC 28334
T 910-892-6456 - F 910-892-4245

1.4. Emergency telephone number

Emergency number: CHEMTREC 24 Hour 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)
Flam. Aerosol 1 H222
Flam. Liq. 2 H225
Acute Tox. 2 (Oral) H300
Eye Dam. 1 H318
Repr. 1B H360
STOT SE 1 H370
STOT SE 3 H336
STOT RE 2 H373

2.2. Label elements

GHS-US labeling
Hazard pictograms (GHS-US):

Signal word (GHS-US): Danger
Hazard statements (GHS-US):
H222 -Extremely flammable aerosol
H225 -Highly flammable liquid and vapor
H300 -Fatal if swallowed
H318 -Causes serious eye damage
H336 -May cause drowsiness or dizziness
H360 -May damage fertility or the unborn child
H370 -Causes damage to organs
H373 -May cause damage to organs through prolonged or repeated exposure

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/sparks/open flames/hot surfaces. - No smoking
P211 -Do not spray on an open flame or other ignition source
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
P251 -Pressurized container: Do not pierce or burn, even after use
P260 -Do not breathe dust/fume/gas/mist/vapors/spray
P261 -Avoid breathing dust/fume/gas/mist/vapors/spray
P264 -Wash … thoroughly after handling
P270 -Do no eat, drink or smoke when using this product
P271 -Use only outdoors or in a well-ventilated area
P280 -Wear protective gloves/protective clothing/eye protection/face protection
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
**AUTOGUARD CARB CLEANER 12/13OZ**

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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**2.3. Other hazards**

Other hazards not contributing to the classification: Contains gas under pressure; may explode if heated.

**2.4. Unknown acute toxicity (GHS-US)**

No data available

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

Not applicable

**3.2. Mixtures**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
</table>
| acetone                                   | (CAS No) 67-64-1   | >= 80.331966 | Flam. Liq. 2, H225  
                                                |                    |      | Eye Irrit. 2A, H319  
                                                |                    |      | STOT SE 3, H336       |
| carbon dioxide, liquified, under pressure | (CAS No) 124-38-9  | 10 - 30 Compressed gas, H280 |
| toluene                                   | (CAS No) 108-88-3  | 5 - 10  | Flam. Liq. 2, H225  
                                                |                    |      | Skin Irrit. 2, H315  
                                                |                    |      | Repr. 2, H361        |
|                                           |                    |       | STOT SE 3, H336  
                                                |                    |      | STOT RE 2, H373      |
|                                           |                    |       | Asp. Tox. 1, H304       |
| methanol                                  | (CAS No) 67-56-1   | 1 - 5  | Flam. Liq. 2, H225  
                                                |                    |      | Acute Tox. 1 (Oral), H300 |
|                                           |                    |       | Eye Dam. 1, H318        |
|                                           |                    |       | Repr. 1B, H360         |
|                                           |                    |       | STOT SE 1, H370        |

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

First-aid measures general: Never give anything by mouth to an unconscious person. If exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician. Specific treatment (see... on this label).

First-aid measures after inhalation: Coughing. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.

First-aid measures after eye contact: Direct contact with the eyes is likely to be irritating. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Fatal if swallowed. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see... on this label).

**4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/injuries: May damage fertility or the unborn child. Causes damage to organs.

Symptoms/injuries after inhalation: Shortness of breath. May cause drowsiness or dizziness.

Symptoms/injuries after eye contact: Causes serious eye damage.

Symptoms/injuries after ingestion: Fatal if swallowed.

**4.3. Indication of any immediate medical attention and special treatment needed**

No additional information available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**


Unsuitable extinguishing media: Do not use a heavy water stream.
5.2. Special hazards arising from the substance or mixture

Explosion hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. May form flammable/explosive vapor-air mixture.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. DO NOT fight fire when fire reaches explosives. Evacuate area.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information: Aerosol level 3.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: No naked lights. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.
Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

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.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use. Handle empty containers with care because residual vapors are flammable.
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. Do not spray on an open flame or other ignition source. No naked lights. No smoking. Use only non-sparking tools. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray.
Hygiene measures: Do no eat, drink or smoke when using this product. Wash ... thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment.
Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Do not expose to temperatures exceeding 50°C/122°F. Keep in fireproof place. Keep container tightly closed.
Incompatible products: Strong bases. Strong acids.
Incompatible materials: Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>ISO ACGIH TWA (ppm)</th>
<th>USA ACGIH STEL (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene (108-88-3)</td>
<td>20 ppm</td>
<td></td>
</tr>
<tr>
<td>Methanol (67-56-1)</td>
<td>200 ppm</td>
<td>250 ppm</td>
</tr>
</tbody>
</table>
# AUTOGUARD CARB CLEANER 12/13OZ

**Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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<table>
<thead>
<tr>
<th><strong>acetone (67-64-1)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>USA ACGIH</strong></td>
<td>ACGIH TWA (ppm)</td>
</tr>
<tr>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td><strong>USA ACGIH</strong></td>
<td>ACGIH STEL (ppm)</td>
</tr>
<tr>
<td></td>
<td>750 ppm</td>
</tr>
<tr>
<td><strong>USA OSHA</strong></td>
<td>OSHA PEL (TWA) (ppm)</td>
</tr>
<tr>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td><strong>USA OSHA</strong></td>
<td>OSHA PEL (STEL) (mg/m³)</td>
</tr>
<tr>
<td></td>
<td>2400 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>carbon dioxide, liquefied, under pressure (124-38-9)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>USA ACGIH</strong></td>
<td>ACGIH TWA (ppm)</td>
</tr>
<tr>
<td></td>
<td>5000 ppm</td>
</tr>
<tr>
<td><strong>USA ACGIH</strong></td>
<td>ACGIH STEL (ppm)</td>
</tr>
<tr>
<td></td>
<td>30000 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>benzene (71-43-2)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>USA ACGIH</strong></td>
<td>ACGIH TWA (ppm)</td>
</tr>
<tr>
<td></td>
<td>0.5 ppm</td>
</tr>
<tr>
<td><strong>USA ACGIH</strong></td>
<td>ACGIH STEL (ppm)</td>
</tr>
<tr>
<td></td>
<td>2.5 ppm</td>
</tr>
</tbody>
</table>

### 8.2. Exposure controls

- **Personal protective equipment**: Avoid all unnecessary exposure.
- **Hand protection**: Wear protective gloves.
- **Eye protection**: Chemical goggles or safety glasses.
- **Respiratory protection**: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
- **Other information**: Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

9.1. **Information on basic physical and chemical properties**

- **Physical state**: Liquid
- **Appearance**: Liquid.
- **Molecular mass**: 58.08 g/mol
- **Color**: Colourless.
- **Odor**: Characteristic. Acetone odour.
- **Odor threshold**: 306 - 653 ppm  
  737 - 1574 mg/m³
- **pH**: 7
- **Relative evaporation rate (butyl acetate=1)**: 6
- **Relative evaporation rate (ether=1)**: 2
- **Melting point**: -95 °C
- **Freezing point**: No data available
- **Boiling point**: 56 °C
- **Flash point**: -18 °C
- **Critical temperature**: 235 °C
- **Self ignition temperature**: 465 °C
- **Decomposition temperature**: No data available
- **Flammability (solid, gas)**: No data available
- **Vapor pressure**: 247 hPa
- **Vapor pressure at 50 °C**: 828 hPa
- **Critical pressure**: 47010 hPa
- **Relative vapor density at 20 °C**: 2.0
- **Relative density**: 0.81 @68F
- **Relative density of saturated gas/air mixture**: 1.2
- **Density**: 809 kg/m³
  Ethanol: Complete  
  Ether: Complete
- **Log Pow**: -0.24 (Test data)
- **Log Kow**: No data available
- **Viscosity, kinematic**: 0.417 mm²/s
- **Viscosity, dynamic**: 0.00033 Pa.s

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16/09/2013 EN (English US) 4/10
### Explosive properties
No data available

### Oxidizing properties
No data available

### Explosive limits
- 2 - 12.8 vol %
- 60 - 310 g/m³

### 9.2. Other information
- Minimum ignition energy: 1.15 mJ
- Specific conductivity: 500000 pS/m
- Saturation concentration: 589 g/m³
- VOC content: 9.63 %

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity
No additional information available

#### 10.2. Chemical stability
Not established. Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

#### 10.3. Possibility of hazardous reactions
Not established.

#### 10.4. Conditions to avoid

#### 10.5. Incompatible materials
Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects
- **Acute toxicity**: Fatal if swallowed.
  - **Toluene (108-88-3)**
    - LD₅₀ oral rat: > 2000 mg/kg (5580 mg/kg bodyweight; Rat; Rat; Experimental value)
    - LD₅₀ dermal rabbit: > 12223 mg/kg (>5000 mg/kg bodyweight; Rabbit; Rabbit; Experimental value; Other,>5000 mg/kg bodyweight; Rabbit; Rabbit; Experimental value; Other)
    - LC₅₀ inhalation rat (mg/l): > 20 mg/l/4h (Rat)
  - **Methanol (67-56-1)**
    - LD₅₀ oral rat: > 5000 mg/kg (1187-2769 mg/kg bodyweight; Rat; Rat)
    - LD₅₀ dermal rabbit: 15800 mg/kg (Rabbit)
    - LC₅₀ inhalation rat (mg/l): 85 mg/l/4h (Rat)
    - LC₅₀ inhalation rat (ppm): 64000 ppm/4h (Rat)
  - **Acetone (67-64-1)**
    - LD₅₀ oral rat: 5800 mg/kg (Rat; Experimental value,Rat; Experimental value)
    - LD₅₀ dermal rabbit: 20000 mg/kg (Rabbit; Experimental value,Rabbit; Experimental value)
    - LC₅₀ inhalation rat (mg/l): 71 mg/l/4h (76 mg/l/4h; Rat; Rat; Experimental value; Experimental value,76 mg/l/4h; Rat; Rat; Experimental value; Experimental value)
    - LC₅₀ inhalation rat (ppm): 30000 ppm/4h (Rat; Experimental value,Rat; Experimental value)
  - **Benzene (71-43-2)**
    - LD₅₀ oral rat: > 930 mg/kg (Rat)
    - LD₅₀ dermal rabbit: > 8240 mg/kg (Rabbit)
    - LC₅₀ inhalation rat (mg/l): 45 mg/l/4h (Rat)
    - LC₅₀ inhalation rat (ppm): 13700 ppm/4h (Rat)

- **Skin corrosion/irritation**: Not classified
- **Serious eye damage/irritation**: Causes serious eye damage. pH: 7
- **Respiratory or skin sensitization**: Not classified
- **Germ cell mutagenicity**: Not classified
- **Carcinogenicity**: Not classified

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

16/09/2013
EN (English US)
<table>
<thead>
<tr>
<th>Compound</th>
<th>IARC group</th>
<th>Reproductive toxicity</th>
<th>Specific target organ toxicity (single exposure)</th>
<th>Specific target organ toxicity (repeated exposure)</th>
<th>Aspiration hazard</th>
<th>Potential Adverse human health effects and symptoms</th>
<th>Symptoms/injuries after inhalation</th>
<th>Symptoms/injuries after eye contact</th>
<th>Symptoms/injuries after ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>toluene (108-88-3)</td>
<td>3</td>
<td>May damage fertility or the unborn child. Based on available data, the classification criteria are not met</td>
<td>Causes damage to organs. May cause drowsiness or dizziness.</td>
<td>May cause damage to organs through prolonged or repeated exposure. Based on available data, the classification criteria are not met</td>
<td>Not classified</td>
<td>Based on available data, the classification criteria are not met. Fatal if swallowed.</td>
<td>Shortness of breath. May cause drowsiness or dizziness.</td>
<td>Causes serious eye damage.</td>
<td>Fatal if swallowed.</td>
</tr>
<tr>
<td>benzene (71-43-2)</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 12: Ecological information**

### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Compound</th>
<th>LC50 fish 1</th>
<th>EC50 Daphnia 1</th>
<th>LC50 fish 2</th>
<th>EC50 Daphnia 2</th>
<th>Threshold limit algae 1</th>
<th>Threshold limit algae 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>toluene (108-88-3)</td>
<td>24 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss))</td>
<td>84 mg/l (24 h; Daphnia magna; LOCOMOTOR EFFECT)</td>
<td>13 mg/l (96 h; Lepomis macrochirus)</td>
<td>11.5 - 19.6 mg/l (48 h; Daphnia magna)</td>
<td>&gt; 400 mg/l (168 h; Scenedesmus quadricauda; TOXICITY TEST)</td>
<td>105 mg/l (192 h; Microcystis aeruginosa)</td>
</tr>
<tr>
<td>methanol (67-56-1)</td>
<td>24 mg/l (96 h; Lepomis macrochirus; LETHAL)</td>
<td>8800 mg/l (48 h; Daphnia pulex)</td>
<td>10800 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss))</td>
<td>24500 mg/l (48 h; Daphnia magna)</td>
<td>6600 mg/l (16 h; Pseudomonas putida)</td>
<td>530 mg/l (192 h; Microcystis aeruginosa)</td>
</tr>
<tr>
<td>acetone (67-64-1)</td>
<td>6210 mg/l (96 h; Pimephales promelas; NOMINAL CONCENTRATION)</td>
<td>8800 mg/l (48 h; Daphnia pulex)</td>
<td>5540 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss))</td>
<td>13000 ppm (96 h; Gambusia affinis; TURBULENT WATER)</td>
<td>&gt; 1000 ppm (96 h; Pisces)</td>
<td>28 mg/l (Protozoa)</td>
</tr>
<tr>
<td>carbon dioxide, liquefied, under pressure (124-38-9)</td>
<td>35 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); LETHAL)</td>
<td>18 mg/l (24 h; Daphnia magna)</td>
<td>29 mg/l (72 h; Selenastrum capricornutum)</td>
<td>10 mg/l (48 h; Daphnia magna)</td>
<td>7500 mg/l (Scenedesmus quadricauda; PH = 7)</td>
<td>3400 mg/l (48 h; Chlorella sp.)</td>
</tr>
<tr>
<td>toluene (108-88-3)</td>
<td>5.3 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss))</td>
<td>18 mg/l (24 h; Daphnia magna)</td>
<td>29 mg/l (72 h; Selenastrum capricornutum)</td>
<td>10 mg/l (48 h; Daphnia magna)</td>
<td>10 - 100.96 h</td>
<td>50 mg/l (24 h; Phaeodactylum; PHOTOSYNTHESIS)</td>
</tr>
</tbody>
</table>
12.2 Persistence and degradability

**AUTOGUARD CARB CLEANER 12/13OZ**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
<th>Biochemical oxygen demand (BOD)</th>
<th>Chemical oxygen demand (COD)</th>
<th>ThOD</th>
<th>BOD (% of ThOD)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>toluene (108-88-3)</strong></td>
<td></td>
<td>2.15 g O²/g substance</td>
<td>2.52 g O²/g substance</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.13</td>
<td>0.69 % ThOD</td>
</tr>
<tr>
<td><strong>methanol (67-56-1)</strong></td>
<td></td>
<td>0.6 - 1.12 g O²/g substance</td>
<td>1.42 g O²/g substance</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.5</td>
<td>0.40 - 0.73 % ThOD</td>
</tr>
<tr>
<td><strong>acetone (67-64-1)</strong></td>
<td></td>
<td>1.43 g O²/g substance</td>
<td>1.92 g O²/g substance</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.20</td>
<td></td>
</tr>
<tr>
<td><strong>carbon dioxide, liquefied, under pressure (124-38-9)</strong></td>
<td>Biodegradability: not applicable. No (test)data on mobility of the substance available.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>benzene (71-43-2)</strong></td>
<td></td>
<td>2.18 g O²/g substance</td>
<td>2.15 g O²/g substance</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.10</td>
<td>0.70 % ThOD</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

**AUTOGUARD CARB CLEANER 12/13OZ**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Log Pow</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>toluene (108-88-3)</strong></td>
<td>-0.24 (Test data)</td>
<td>Not established.</td>
</tr>
<tr>
<td><strong>methanol (67-56-1)</strong></td>
<td>&lt; 10 (Leuciscus idus)</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
<tr>
<td><strong>acetone (67-64-1)</strong></td>
<td>0.69 (Pisces)</td>
<td>Not bioaccumulative.</td>
</tr>
</tbody>
</table>

**BCF**

- BCF fish 1: 13.2 (Anguilla japonica)
- BCF fish 2: 90 (72 h; Leuciscus idus)
- BCF other aquatic organisms 1: 380 (24 h; Chlorella sp.; FRESH WEIGHT)
- BCF other aquatic organisms 2: 4.2 (Mytilus edulis; FRESH WEIGHT)
- Log Pow: 2.73 (Experimental value; Other; 20 °C, Experimental value; Other; 20 °C, Experimental value; Other; 20 °C)
- Bioaccumulative potential: Low potential for bioaccumulation (BCF < 500).
# AUTOGUARD CARB CLEANER 12/13OZ

**Safety Data Sheet**

accord cording to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Substance</th>
<th>Log Pow</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide, liquefied, under pressure (124-38-9)</td>
<td>0.83 (Experimental value)</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
<tr>
<td>Benzene (71-43-2)</td>
<td>0.83 (Experimental value)</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
</tbody>
</table>

## 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Substance</th>
<th>Surface tension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene (108-88-3)</td>
<td>0.03 N/m (20 °C)</td>
</tr>
<tr>
<td>Methanol (67-56-1)</td>
<td>0.023 N/m (20 °C)</td>
</tr>
<tr>
<td>Acetone (67-64-1)</td>
<td>0.0237 N/m</td>
</tr>
<tr>
<td>Benzene (71-43-2)</td>
<td>0.029 N/m (20 °C)</td>
</tr>
</tbody>
</table>

## 12.5. Other adverse effects

Other information: Avoid release to the environment.

**SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use. Dispose of contents/container to...

Additional information: Flammable vapors may accumulate in the container. Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials: Avoid release to the environment. Hazardous waste due to toxicity.

**SECTION 14: Transport information**

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

| US DOT (ground): | UN1950, Aerosols, 2.1, Limited Quantity |
| ICAO/IATA (air): | UN1950, Aerosols, 2.1, Limited Quantity |
| IMO/IMDG (water): | UN1950, Aerosols, 2, Limited Quantity |

Special Provisions: N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

### 14.2. UN proper shipping name

DOT Proper Shipping Name: Aerosols

Department of Transportation (DOT) Hazard Classes: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115

Hazard labels (DOT): 2.1 - Flammable gases

DOT Special Provisions (49 CFR 172.102): N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

DOT Packaging Exceptions (49 CFR 173.xxx): 306

DOT Packaging Non Bulk (49 CFR 173.xxx): None

DOT Packaging Bulk (49 CFR 173.xxx): None

### 14.3. Additional information

Other information: No supplementary information available.

**Overland transport**

No additional information available

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16/09/2013

EN (English US)
Transport by sea

DOT Vessel Stowage Location: A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other: 48 - Stow “away from” sources of heat, 87 - Stow “separated from” Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials.

Air transport

DOT Quantity Limitations Passenger aircraft/rail: 75 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 150 kg

SECTION 15: Regulatory information

15.1. US Federal regulations

AUTOGUARD CARB CLEANER 12/13OZ

SARA Section 311/312 Hazard Classes

- Delayed (chronic) health hazard
- Fire hazard
- Immediate (acute) health hazard

methanol (67-56-1)

- Listed on SARA Section 302 (Specific toxic chemical listings)

SARA Section 311/312 Hazard Classes

- Delayed (chronic) health hazard
- Fire hazard
- Immediate (acute) health hazard

acetone (67-64-1)

- Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes

- Immediate (acute) health hazard
- Fire hazard

15.2. International regulations

CANADA

AUTOGUARD CARB CLEANER 12/13OZ

WHMIS Classification

- Class B Division 5 - Flammable Aerosol
- Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
- Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects
- Class D Division 2 Subdivision B - Toxic material causing other toxic effects
- Class B Division 2 - Flammable Liquid

methanol (67-56-1)

WHMIS Classification

- Class B Division 2 - Flammable Liquid
- Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects
- Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
- Class D Division 2 Subdivision B - Toxic material causing other toxic effects

acetone (67-64-1)

- Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

acetone (67-64-1)

- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)- EEC Directive 79/831, sixth Amendment of the directive 67/548 (dangerous substances).
- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Repr. Cat.3; R63
F; R11
Xn; R20/21/22
Xn; R68/20/21/22
Xc; R36
R66

Full text of R-phrases: see section 16

15.2. National regulations
**AUTOGUARD CARB CLEANER 12/13OZ**

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### acetone (67-64-1)

- Listed on Inventory of Chemicals and Chemical Substances (PICCS)
- Listed on Inventory of Existing Chemical Substances (IECSC)
- Listed on KECI (Chemical Inventory of Korea)
- Listed on the AICS (the Australian Inventory of Chemical Substances)
- Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
- Listed on the Korean ECL (Existing Chemical List) inventory.

### 15.3. US State regulations

No additional information available

### SECTION 16: Other information

**Indication of changes:** Revision - See : *

**Other information:** None.

**Full text of H-phrases:** see section 16:

<table>
<thead>
<tr>
<th>Acute Toxicity 1 (Oral)</th>
<th>Acute toxicity (oral) Category 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity 2 (Oral)</td>
<td>Acute toxicity (oral) Category 2</td>
</tr>
<tr>
<td>Asp. Toxicity 1</td>
<td>Aspiration hazard Category 1</td>
</tr>
<tr>
<td>Compressed gas</td>
<td>Gases under pressure Compressed gas</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Flam. Aerosol 1</td>
<td>Flammable aerosol Category 1</td>
</tr>
<tr>
<td>Flam. Lq. 2</td>
<td>Flammable liquids Category 2</td>
</tr>
<tr>
<td>Repr. 1B</td>
<td>Reproductive toxicity Category 1B</td>
</tr>
<tr>
<td>Repr. 2</td>
<td>Reproductive toxicity Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity (repeated exposure) Category 2</td>
</tr>
<tr>
<td>STOT SE 1</td>
<td>Specific target organ toxicity (single exposure) Category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H222</td>
<td>Extremely flammable aerosol</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapor</td>
</tr>
<tr>
<td>H280</td>
<td>Contains gas under pressure; may explode if heated</td>
</tr>
<tr>
<td>H300</td>
<td>Fatal if swallowed</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child</td>
</tr>
<tr>
<td>H361</td>
<td>Suspected of damaging fertility or the unborn child</td>
</tr>
<tr>
<td>H370</td>
<td>Causes damage to organs</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

**NFPA health hazard:** 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

**NFPA fire hazard:** 3 - Liquids and solids that can be ignited under almost all ambient conditions.

**NFPA reactivity:** 2 - Normally unstable and readily undergo violent decomposition but do not detonate. Also: may react violently with water or may form potentially explosive mixtures with water.

**HMIS III Rating**

- **Health:** 2 Moderate Hazard - Temporary or minor injury may occur
- **Flammability:** 3 Serious Hazard
- **Physical:** 2 Moderate Hazard

SDS US (GHS HazCom 2012) - Technical Chemical

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product.