1. IDENTIFICATION

Product Identifier
Product Name | Autoguard Octane Boost

Other means of identification
SDS # | AG-023
UN/ID No | UN1268

Recommended use of the chemical and restrictions on use
Recommended Use | Fuel additive.

Details of the supplier of the safety data sheet
Supplier Address
Warren Oil Company, LLC
915 E. Jefferson Ave.
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

Appearance | Amber liquid
Physical State | Liquid
Odor | Petroleum

Classification
Aspiration toxicity | Category 1
Flammable Liquids | Category 3

Signal Word
Danger

Hazard Statements
May be fatal if swallowed and enters airways
Flammable liquid and vapor

Precautionary Statements - Prevention
Wear protective gloves/protective clothing/eye protection/face protection
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof equipment
Use only non-sparking tools
Take precautionary measures against static discharge

**Precautionary Statements - Response**
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
IF SWALLOWED: Immediately call a POISON CENTER or doctor
DO NOT induce vomiting
IN CASE OF FIRE: Use CO2, dry chemical, or foam to extinguish

**Precautionary Statements - Storage**
Store locked up
Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light aliphatic solvent naphtha</td>
<td>64742-48-9</td>
<td>90-99.8</td>
</tr>
</tbody>
</table>

**If Chemical Name/CAS No is “proprietary” and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

### 4. FIRST-AID MEASURES

**First Aid Measures**

**Eye Contact**
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

**Skin Contact**
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Discard contaminated shoes.

**Inhalation**
Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. Obtain medical attention.

**Ingestion**
Immediately call a poison center or doctor/physician. DO NOT induce vomiting.

**Most important symptoms and effects**

**Symptoms**
May be harmful in contact with skin. May be fatal if swallowed and enters airways. Excessive accidental exposure may cause headache, dizziness, nausea and mild respiratory irritation. Breathing of high vapor concentrations may cause central nervous system depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.

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

**Notes to Physician**
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Water fog, carbon dioxide, foam, dry chemical.
Unsuitable Extinguishing Media
Not determined.

Specific Hazards Arising from the Chemical
Not determined.


Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required. Eliminate all ignition sources. Maintain good ventilation.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Take up with an absorbent. Store in a closed waste container until disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid contact with skin and eyes. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. DO NOT take internally. Wash hands before eating or smoking.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Store in well-ventilated place. Keep cool. Store away from heat, sparks or open flame. Do not store at temperatures above 49°C/120°F. Keep container closed when not in use.

Incompatible Materials Acids. Strong oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylcyclopentadienyl manganese tricarbonyl 12108-13-3</td>
<td>TWA: 0.2 mg/m³ Mn S* (vacated) TWA: 0.2 mg/m³ Mn (vacated) S* Ceiling: 5 mg/m³ Mn Ceiling: 5 mg/m³ Mn</td>
<td>IDLH: 500 mg/m³ Mn TWA: 0.2 mg/m³ Mn TWA: 1 mg/m³ Mn STEL: 3 mg/m³ Mn</td>
<td></td>
</tr>
</tbody>
</table>
Appropriate engineering controls

Engineering Controls General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during the use of this product.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses.

Skin and Body Protection Neoprene or nitrile gloves recommended.

Respiratory Protection An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are expected to exceed the applicable limits.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td>Odor</td>
</tr>
<tr>
<td>Appearance</td>
<td>Amber liquid</td>
<td>Odor Threshold</td>
</tr>
<tr>
<td>Color</td>
<td>Amber</td>
<td>Petroleum</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>&gt;148.9 °C / &gt;300 °F</td>
<td>Pensky-Martens Closed Cup (PMCC)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>42.2 °C / 108 °F</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Liquid-Not applicable</td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not established</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not established</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>1.6</td>
<td>@ 20°C (68°F)</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
<td>@ 15.6°C (60°F)</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.82</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble in water</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Soluble in hydrocarbons</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not established</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>1.5 cps</td>
<td>@ 40°C (104°F)</td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>9.42 lbs/gal @ 15.6°C (60°F)</td>
<td></td>
</tr>
</tbody>
</table>

Other Information

Density 9.42 lbs/gal @ 15.6°C (60°F)

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**
None under normal processing.

**Hazardous Polymerization**
Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to Avoid**
Keep away from heat, sparks and open flame.

**Incompatible Materials**
Acids. Strong oxidizers.

**Hazardous Decomposition Products**
Oxides of nitrogen. Carbon Monoxide. Carbon Dioxide

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information**

**Eye Contact**
Avoid contact with eyes.

**Skin Contact**
May be harmful in contact with skin.

**Inhalation**
Do not inhale.

**Ingestion**
Do not ingest.

#### Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light aliphatic solvent naphtha 64742-48-9</td>
<td>&gt; 6000 mg/kg (Rat)</td>
<td>&gt; 3160 mg/kg (Rabbit)</td>
<td>&gt; 8500 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Methylcyclopentadienyl manganese tricarbonyl 12108-13-3</td>
<td>= 58 mg/kg (Rat)</td>
<td>= 140 mg/kg (Rabbit)</td>
<td>= 0.076 mg/L (Rat) 4 h</td>
</tr>
</tbody>
</table>

#### Information on physical, chemical and toxicological effects

**Symptoms**
Please see Section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity**
Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Aspiration hazard**
May be fatal if swallowed and enters airways.

#### Numerical measures of toxicity

The following values are calculated based on Section 3 of the GHS document.

ATEmix (oral) 6,018.64 mg/kg
ATEmix (dermal) 3,169.82 mg/kg
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.

Persistence/Degradability
Not determined.

Bioaccumulation
Not determined.

Mobility
Not determined

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note
Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT
UN/ID No: UN1268
Proper Shipping Name: Petroleum products, n.o.s.
Hazard Class: 3
Packing Group: III

IATA
UN/ID No: UN1268
Proper Shipping Name: Petroleum products, n.o.s.
Hazard Class: 3
Packing Group: III

IMDG
UN/ID No: UN1268
Proper Shipping Name: Petroleum products, n.o.s.
Hazard Class: 3
Packing Group: III

15. REGULATORY INFORMATION

International Inventories
### Chemical Name

<table>
<thead>
<tr>
<th></th>
<th>TSCA</th>
<th>DSL</th>
<th>EINECSE/ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light aliphatic solvent naphtha</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Methylcyclopentadienyl manganese tricarbonyl</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Legend:**
- **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- **EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- **ENCS** - Japan Existing and New Chemical Substances
- **IECSC** - China Inventory of Existing Chemical Substances
- **KECL** - Korean Existing and Evaluated Chemical Substances
- **PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- **AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

**CERCLA**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylcyclopentadienyl manganese tricarbonyl 12108-13-3</td>
<td></td>
<td></td>
<td>100 lb</td>
</tr>
</tbody>
</table>

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### US State Regulations

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylcyclopentadienyl manganese tricarbonyl 12108-13-3</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>2</td>
<td>0</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>2</td>
<td>0</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

**Issue Date:** 02-Apr-2012  
**Revision Date:** 05-June-2018  
**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