SECTION 1: IDENTIFICATION

Product Identifier
Product Form: Liquid
Product Name: Combustion Leak Detector Fluid for Diesel Engines

Intended Use of the Product
Diesel Engine Leak Detection

Name, Address, and Telephone of the Responsible Party
Company
Lisle Corporation
807 East Main Street
Clarinda, IA 51632
1-712-542-5101
www.lislecorp.com

Emergency Telephone Number
Emergency Number: 1-712-542-5101

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture
Classification (GHS-US) Not classified

Label Elements
GHS-US Labeling No labeling applicable

Other Hazards: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Prolonged contact with fluid can produce mechanical irritation.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>% (w/w)</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium bicarbonate</td>
<td>(CAS No) 144-55-8</td>
<td>&lt;.01%</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

This product may contain <.01 % of a non-hazardous inorganic flow-aid

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures
General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
Inhalation: When symptoms occur: go into open air and ventilate suspected area.
Skin Contact: Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.
**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical attention if a large amount is swallowed.

**Most Important Symptoms and Effects Both Acute and Delayed**

**General:** None expected under normal conditions of use.

**Inhalation:** Prolonged inhalation of dust may cause respiratory irritation.

**Skin Contact:** Skin contact with large amounts of dust may cause mechanical irritation.

**Eye Contact:** Contact may cause irritation due to mechanical abrasion.

**Ingestion:** Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema. **Chronic Symptoms:** None expected under normal conditions of use.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention.

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**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** For surrounding fire: Use of heavy stream of water may spread fire.

**Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** NOT FLAMMABLE. Under fire conditions, hazardous fumes will be present. **Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Advice for Firefighters**

**Precautionary Measures Fire:** Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

**Firefighting Instructions:** Exercise caution when fighting any chemical fire.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO₂). Sodium oxides.

**Reference to Other Sections**

Refer to section 9 for flammability properties.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust or fumes. Avoid skin and eye contact.

**For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

**For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

**Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment.

**Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain and collect as any liquid.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Keep in suitable, closed containers for disposal. Contact competent authorities after a spill.

**Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection.

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**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling**

**Additional Hazards When Processed:** When heated, material emits irritating fumes.
**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

**Conditions for Safe Storage, Including Any Incompatibilities**

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

**Incompatible Materials:** Acids. Lime.

**Storage Temperature:** < 65 °C (150 °F)

**Specific End Use(s)** Diesel Engine Leak Detection

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters**

Contains no substances with occupational exposure limits.

**Exposure Controls**

Appropriate Engineering Controls: For occupational/workplace settings: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: For occupational or bulk quantities: Gloves. Safety glasses.

Materials for Protective Clothing: For occupational or bulk quantities: Chemically resistant materials and fabrics.

Hand Protection: For occupational or bulk quantities: Wear chemically resistant protective gloves.

Eye Protection: For occupational or bulk quantities: Chemical goggles or safety glasses.

Respiratory Protection: Respiratory protection is not required. Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Other Information: When using, do not eat, drink or smoke.

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**SECTION 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>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper/Lower Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Vapor Density at 20 °C</td>
<td>0.998 g/cm³</td>
</tr>
<tr>
<td>Specific gravity / density</td>
<td>Not available</td>
</tr>
</tbody>
</table>
### Specific Gravity
Not available

### Solubility
Not available

### Partition Coefficient: N-octanol/water
Not available

### Viscosity
Not available

### Explosion Data – Sensitivity to Mechanical Impact
Not expected to present an explosion hazard due to mechanical impact.

### Explosion Data – Sensitivity to Static Discharge
Not expected to present an explosion hazard due to static discharge.

### SECTION 10: STABILITY AND REACTIVITY

#### Reactivity
Hazardous reactions will not occur under normal conditions.

#### Chemical Stability
Hazardous reactions will not occur under normal conditions.

#### Possibility of Hazardous Reactions
Hazardous polymerization will not occur.

#### Conditions to Avoid
No know conditions.

#### Incompatible Materials
Acids. Lime.

#### Hazardous Decomposition Products
None known. At high temperature may liberate toxic gases.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

##### Acute Toxicity
Not classified

##### LD50 and LC50 Data:
Not classified

##### Skin Corrosion/Irritation
Not classified

##### Serious Eye Damage/Irritation
Not classified

##### Respiratory or Skin Sensitization
Not classified

##### Germ Cell Mutagenicity
Not classified

##### Teratogenicity
Not classified

##### Carcinogenicity
Not classified

##### Specific Target Organ Toxicity (Repeated Exposure)
Not classified

##### Reproductive Toxicity
Not classified

##### Specific Target Organ Toxicity (Single Exposure)
Not classified

##### Aspiration Hazard
Not classified

##### Symptoms/Injuries After Inhalation
Prolonged inhalation of vapors may cause respiratory irritation.

##### Symptoms/Injuries After Skin Contact
Skin contact with large amounts of liquid may cause mechanical irritation.

##### Symptoms/Injuries After Eye Contact
Contact may cause irritation due to mechanical abrasion.

##### Symptoms/Injuries After Ingestion
Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.

##### Chronic Symptoms
None expected under normal conditions of use.

### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity
No additional information available

#### Persistence and Degradability
Not established

#### Bio accumulative Potential
Not established

#### Mobility in Soil
Not available

#### Other Adverse Effects
Other Information: Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### Waste Disposal Recommendations
Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

### SECTION 14: TRANSPORT INFORMATION

#### In Accordance with DOT
Not regulated for transport

#### In Accordance with IMDG
Not regulated for transport
In Accordance with IATA  Not regulated for transport
In Accordance with TDG  Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal & International Regulations

Sodium Bicarbonate (144-55-8)

- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on the Canadian DSL (Domestic Substances List)
- Listed on IECC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations

Neither this product nor its chemical components appear on any US state lists.

Canadian Regulations

Sodium bicarbonate (144-55-8)

- Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification  Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date  : 11/6/2018

Other Information  : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document

Lisle Corporation
807 E. Main St
Clarinda, IA 51632
T 1-712-542-5101

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