1. IDENTIFICATION

Product Identifier

Product Name  Fluid Film® Liquid AR
Product Type  Grease, Corrosion inhibitor

Recommended use of the chemical and restrictions on use

Recommended Use  Corrosion inhibitor, lubricant
Uses advised against  No information available

Details of the supplier of the safety data sheet

Supplier Name  Eureka Chemical Company
Supplier Address  234 Lawrence Ave
                South San Francisco, CA 94080
                US
Supplier Phone Number  Phone: 650-761-3536
                        Fax: 650-589-1943
                        Contact Phone: 1-650-761-3536
Supplier Email  info@fluid-film.com
Emergency telephone number  Chemtrec (800) 424-9300

2. HAZARDS IDENTIFICATION

Classification


GHS Label elements, including precautionary statements

None.

Emergency Overview

Signal word  None
Hazard Statements  None

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical State</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amber</td>
<td>Gel</td>
<td>Mild piney odor</td>
</tr>
</tbody>
</table>

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

No special requirements. Keep in closed containers at 0-49°C.

Precautionary Statements - Disposal

Product should be disposed of via authorized waste disposal contractors in accordance with all local and national regulations.
Hazards not otherwise classified (HNOC)
Not applicable.

Unknown Toxicity
No information available.

Other information
No information available.

Interactions with Other Chemicals
No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refined petroleum oil, hydrotreated light naphthenic</td>
<td>64742-53-6</td>
<td>50-90</td>
<td>*</td>
</tr>
<tr>
<td>Calcium petroleum sulfonate</td>
<td>61789-86-4</td>
<td>1-10</td>
<td>*</td>
</tr>
<tr>
<td>Refined petroleum oil, hydrotreated heavy paraffinic</td>
<td>64742-54-7</td>
<td>1-10</td>
<td>*</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

First aid measures

**General Advice**
Immediate medical attention is required.

**Eye Contact**
Rinse thoroughly with plenty of water for at least 15 minutes, also under the eyelids. If symptoms persist, call a physician.

**Skin Contact**
Wipe excess material from the skin with a cloth, followed by washing with soap and water. A waterless skin cleanser is beneficial in removing the material from the skin. In the case of skin irritation or allergic reactions, see a physician.

**Inhalation**
If respiratory symptoms develop, remove to fresh air. If symptoms persist, call a physician.

**Ingestion**
Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

**Most important symptoms and effects, both acute and delayed**
No information available.

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

**Notes to Physician**
Treat symptomatically.
5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
CO₂, Dry Chemical, Foam

Unsuitable Extinguishing Media
CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical
No information available.

Uniform Fire Code
Combustible. Will not readily ignite.

Hazardous Combustion Products
Carbon oxides.

Explosion Data
Sensitivity to Mechanical Impact
No.

Sensitivity to Static Discharge
No.

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
Avoid contact with eyes.

Other Information
Refer to protective measures listed in Sections 7 and 8.

Environmental Precautions

Environmental Precautions
Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

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

Methods for cleaning up
Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage
Keep container tightly closed.

Incompatible Products
None known based on information supplied.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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>Refined petroleum oil, hydrotreated light</td>
<td>TWA: 5 mg/m³, as oil mist,</td>
<td>TWA: 5 mg/m³, as oil mist,</td>
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</tr>
<tr>
<td>naphthenic</td>
<td>mineral</td>
<td>mineral</td>
<td></td>
</tr>
<tr>
<td>64742-53-6</td>
<td>STEL: TWA: 10 mg/m³, as oil</td>
<td>STEL: TWA: 10 mg/m³, as oil</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mist, mineral</td>
<td>mist, mineral</td>
<td></td>
</tr>
<tr>
<td>Refined petroleum oil, hydrotreated heavy</td>
<td>TWA: 5 mg/m³, as oil mist,</td>
<td>TWA: 5 mg/m³, as oil mist,</td>
<td></td>
</tr>
<tr>
<td>paraffinic</td>
<td>mineral</td>
<td>mineral</td>
<td></td>
</tr>
<tr>
<td>64742-54-7</td>
<td>STEL: TWA: 10 mg/m³, as oil</td>
<td>STEL: TWA: 10 mg/m³, as oil</td>
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</tr>
<tr>
<td></td>
<td>mist, mineral</td>
<td>mist, mineral</td>
<td></td>
</tr>
</tbody>
</table>

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value
OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits
NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

Appropriate engineering controls

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection
No special protective equipment required. Use chemical eye goggles in tanks and confined spaces.

Skin and Body Protection
Wear protective gloves and protective clothing.

Respiratory Protection
No protective equipment is needed under normal use conditions. Use approved respirator with organic vapor cartridges in tanks and confined spaces. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State
Gel

Appearance
Amber Gel

Color
Amber

Odor
Mild piney odor

Odor Threshold
No information available

Property                      | Values       | Remarks/ Method        |
-------------------------------|--------------|------------------------|
pH                             | 8.5          | None known             |
Melting / freezing point       | No data available | None known               |
Boiling point / boiling range  | No data available | None known               |
Flash Point                    | 157 °C / 315 °F | None known               |
Evaporation Rate               | No data available | None known               |
Flammability (solid, gas)      | No data available | None known               |
Flammability Limit in Air      |                          | None known               |
Upper flammability limit       | No data available |                          |
Lower flammability limit       | No data available |                          |
Vapor pressure                 | No data available | None known               |
Vapor density                  | No data available | None known               |
Specific Gravity 0.915
Water Solubility Insoluble in water
Solubility in other solvents None known
Partition coefficient: n-octanol/water No data available
Autoignition temperature No data available
Decomposition temperature No data available
Kinematic viscosity No data available
Dynamic viscosity No data available
Explosive properties No data available
Oxidizing Properties No data available

Other Information
Softening Point No data available
VOC Content (%) < 0.1% (CARB 310)
Particle Size None known
Particle Size Distribution

10. STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to avoid
None known based on information supplied.

Incompatible materials
None known based on information supplied.

Hazardous Decomposition Products
Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information
Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation Specific test data for the substance or mixture is not available.

Eye Contact Minimally irritating.

Skin Contact Prolonged contact could cause skin irritation.

Ingestion > 14,000 mg/kg

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>Calcium petroleum sulfonate</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 4000 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>
Information on toxicological effects

Symptoms
No information available.

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

Sensitization
No information available.

Mutagenic Effects
No information available.

Carcinogenicity
Contains no known carcinogens.

Reproductive Toxicity
No information available.

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Chronic Toxicity
No information available.

Target Organ Effects
No information available.

Aspiration Hazard
No information available.

Numerical measures of toxicity

Product Information

The following values are calculated based on chapter 3.1 of the GHS document
Not applicable

12. ECOLOGICAL INFORMATION

Ecotoxicity
No information available.

Persistence and Degradability
No information available.

Bioaccumulation
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods
Product should be disposed of via authorized waste disposal contractors in accordance with all local and national regulations. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging
Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes
Not applicable.

14. TRANSPORT INFORMATION
15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

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.

SARA 311/312 Hazard Categories
Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden release of pressure hazard No
Reactive Hazard No

SARA 302 Extremely Hazardous Substances (TPQ)
None

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).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

VOC Regulations
This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules.
US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

International Regulations

Canada
WHMIS Hazard Class
Not applicable.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards</th>
<th>Physical Hazard</th>
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<tbody>
<tr>
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<td>1</td>
<td>1</td>
<td>0</td>
<td></td>
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</tbody>
</table>

HMIS

<table>
<thead>
<tr>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Chronic Hazard Star Legend

*= Chronic Health Hazard

Prepared By
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Revision Date
20-May-2015

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