



SAFETY DATA SHEET

Revision Date 05/24/2018

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

Not classified as hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

None.

Emergency Overview

| | |
|--------------------------|-----------------------------|
| Signal word | None |
| Hazard Statements | None |
| Appearance Amber | Physical State Gel |
| | Odor Mild piney odor |

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 container tightly closed.

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

| Chemical Name | CAS No. | Weight-% | Trade Secret |
|--|------------|----------|--------------|
| Refined petroleum oil, hydrotreated heavy naphthenic | 64742-52-5 | 50-90 | * |
| Benzenesulfonic Acid, Di-C10-18-alkyl derivs., calcium salts | 93820-57-6 | 1-10 | * |
| Refined petroleum oil, hydrotreated heavy paraffinic | 64742-54-7 | 1-10 | * |

*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**Most Important Symptoms and Effects** No information available.**Indication of any immediate medical attention and special treatment needed****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

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|---|---|------------|
| Refined petroleum oil, hydrotreated heavy naphthenic 64742-52-5 | TWA: 5 mg/m ³ , as oil mist, mineral STEL: TWA: 10 mg/m ³ , as oil mist, mineral | TWA: 5 mg/m ³ , as oil mist, mineral | |
| Refined petroleum oil, hydrotreated heavy paraffinic 64742-54-7 | TWA: 5 mg/m ³ , as oil mist, mineral STEL: TWA: 10 mg/m ³ , as oil mist, mineral | TWA: 5 mg/m ³ , as oil mist, mineral | |

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 | Odor | Mild piney odor |
| Appearance | Amber Gel | Odor Threshold | No information available |
| Color | Amber | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks/ Method</u> |
|-------------------------------|-------------------|------------------------|
| 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 | | |
| 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 | None known |
| Water Solubility | Insoluble in water | None known |
| Solubility in other solvents | No data available | None known |
| Partition coefficient: n-octanol/water | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |
| Explosive properties | No data available | None known |
| Oxidizing Properties | No data available | |

Other Information

| | |
|-----------------------------------|-------------------|
| Softening Point | No data available |
| VOC Content (%) | < 0.1% (CARB 310) |
| Particle Size | No data available |
| 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

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|--------------------|-----------------------|-----------------|
| Calcium petroleum sulfonate 61789-86-4 | > 5000 mg/kg (Rat) | > 4000 mg/kg (Rabbit) | - |

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

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

| | | | | | | | |
|-------------|-----------------------|----------|---------------------|----------|------------------------|----------|--|
| NFPA | Health Hazards | 1 | Flammability | 1 | Instability | 0 | Physical and Chemical Hazards - Personal Protection X |
| HMIS | Health Hazards | 1 | Flammability | 1 | Physical Hazard | 0 | |


Chronic Hazard Star Legend * = Chronic Health Hazard

Prepared By Product Stewardship
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Disclaimer

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End of Safety Data Sheet