



Headwaters® Corrosion Inhibitor (18F)

Safety Data Sheet (SDS)

Section 1: Identification of the Substance or Mixture and of the Supplier

1.A. Product Identifier

Product Name: Headwaters® Corrosion Inhibitor (18F)

Product Form: Mixture

1.B. Other means of Identification

Synonyms: N/A

1.C. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Uses: Industrial, De-icing, Anti-icing,

Recommended Restrictions: None Known.

1.D. Details of the Supplier of the Safety Data Sheet

Company Identity: Pelican Chemicals, Inc.

Company Address: 2901 West Broadway, Suite 200

Company City & State: Missoula, MT 59808

Company Phone: (888) 526 – 1952

1.E. Emergency Phone(s)

US (24 Hour): CHEMTREC: (800) 424-9300

Section 2: Hazard(s) Identification

2.A. Classification of the Substance or Mixture

GHS-US: GHS Classification under 2012 OSH Hazard Communication Standard (29 CFR 1910.200):

NONE

2.B. Label Elements

Signal Word: NONE

Hazard Statements: NONE

Hazard Pictograms: NONE

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| | | | |
|--|--|--|--|

Precautionary Statements:

NONE

2.C. Hazards Not Otherwise Classified

None Known.

2.D. Unknown Acute Toxicity

None Known.

Section 3: Composition/Information on Ingredients

| Chemical Name | Common Name | CAS # | EINECS# | Weight (%) |
|---------------------------------|-------------|-------|---------|------------|
| Proprietary Corrosion Inhibitor | Headwaters® | | | 35-40% |

Section 4: First-Aid Measures

4.A. Description of Necessary Measures

Eye contact: Flush with copious amounts of water, seek medical attention

Skin contact: Wash with mild soap and water, seek medical advice if irritation persists

Ingestion: Drink large amounts of water. If gastrointestinal irritation develops, consult medical personnel.

Do not induce vomiting without medical advice

Inhalation: Move to fresh air

4.B. Description of Symptoms and Effects

General Symptoms/Injuries: The most important known symptoms and effects are described in section 11.



Eye Contact: Eye Irritation. Eye exposure may cause minor eye irritation.

Skin Contact: Skin Irritation. Skin exposure may cause slight irritation.

Ingestion: Consumption may cause minor nausea and stomach discomfort.

Inhalation: Inhaling mist, spray, or vapor may cause slight irritation to upper respiratory tract.

4.C. Description of Immediate Medical Attention and Special Treatment

If any irritation symptoms from exposure persist, contact a local physician.

Section 5: Fire-Fighting Measures

5.A. Extinguishing Media

Suitable Extinguishing Media: Does not burn. Compatible with all standard extinguishing media and firefighting techniques.

Unsuitable Extinguishing Media: None Known.

5.B. Specific Hazards

Description: Non-flammable, Non-combustible liquid, that is not expected to be reactive under normal conditions.

Hazardous combustion products: Hydrogen Chloride Gas, Sodium and Calcium Oxides

5.C. Special Protective Equipment and Precautions for Fire-Fighters

Use goggles, a self-contained breathing apparatus and suitable protective clothing should be worn.

Section 6: Accidental Release Measures

6.A. Personal Precautions, Protective Equipment, and Emergency Procedures

Wear appropriate protective equipment before action. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Ensure there is a safety shower in the immediate work area.

Ensure there is an eye wash station in the immediate work area.

Spilled material may cause a slipping hazard on some surfaces.

Spills may be tacky and slippery.

6.B. Containment and Clean-up

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Spills may be flushed into normal drainage into ground with copious amounts of water.

Section 7: Handling and Storage

7.A. Precautions for Safe Handling

Avoid skin and eye contact.

Proper use of safety glasses and personal protective equipment required, as described in Section 8 of the SDS. Handle product with efficient industrial hygiene and wash hands after each use.

7.B. Conditions for Safe Storage

Store in a closed container away from incompatible materials.

Store in a cool, dry place protected from weather and sunlight.

Protect from atmospheric moisture. Keep containers closed when not in use.

Section 8: Exposure Controls/Personal Protection

8.A. Exposure Limits

| Chemical Name | OSHA Final PEL TWA | OSHA Final PEL STEL | OSHA Final PEL Ceiling |
|---------------|--------------------|---------------------|------------------------|
| | | | |

No specific OES assigned for the proprietary corrosion inhibitor.

8.B. Appropriate Engineering Controls

When there is a potential for exposure, and emergency eyewash and safety shower should be provided within the immediate work area.

8.C. Individual Protection Measures

Respiratory Exposure Controls: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In dusty or misty



atmospheres, use an approved particulate respirator. A high-efficiency particulate air (HEPA) N95 should be an effective air-purifying respirator. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

Eye Protection: Wear safety glasses with non-flexible side shields or chemical goggles. A face shield should be worn if a potential for splashing or spraying exists.

Hand Protection: Use gloves chemically resistant to this material. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures. Examples of preferred glove barrier materials include: Neoprene, Polyvinyl Chloride (“PVC” or “vinyl”), Nitrile/butadiene rubber (“nitrile” or “NBR”).

Body Protection: Wear appropriate protective non-leather protective boots. Wear appropriate protective, impervious clothing. Chemical protective gloves and boots such as PVC, Neoprene, or Heavy Nitrile are recommended. Leather products do not offer adequate protection and will dehydrate with resultant shrinkage and possible destruction.

Work & Hygienic Practices: Wash thoroughly after handling, wash contaminated clothes before next use. Practice good and safe industrial hygiene.

Section 9: Physical and Chemical Properties

| | |
|--|--------------------|
| Appearance: | Light Amber Liquid |
| Odor: | Slightly Sweet |
| Odor threshold: | N/A |
| pH: | 6.0-7.5 |
| Melting point: | N/A |
| Freezing point: | 18°F |
| Boiling point/range: | 212°F |
| Flash point: | N/A |
| Evaporation rate: | N/A |
| Flammability: | N/A |
| Upper/lower flammability or explosive limits: | N/A |
| Vapor pressure: | N/A |
| Vapor density: | N/A |
| Relative density (@20°C): | 1.22 |
| Solubility: | Complete in water |
| Partition Coefficient: N-octanol/water: | N/A |
| Auto-ignition temperature: | N/A |
| Decomposition temperature: | N/A |
| Viscosity: | N/A |

Section 10: Stability and Reactivity

| | |
|--|----------------|
| Reactivity: | Low reactivity |
| Chemical stability: | Stable |
| Possibility of hazardous reactions: | None |
| Conditions to avoid: | None |
| Incompatible materials: | None |
| Hazardous decomposition products: | None |

Section 11: Toxicological Information

11.A. Likely Routes of Exposure

Eye Contact: May cause slight eye irritation.

Skin Contact: Brief contact is essentially non-irritating to skin. Prolonged contact may cause slight irritation.

Ingestion: Low toxicity if swallowed.

Inhalation: Vapors are unlikely due to physical properties. Mist may cause slight irritation to upper respiratory tract (nose and throat).

Chronic Effects: None known.

11.B. Symptoms

Eye Contact: Mild irritation

Skin Contact: Mild irritation



PELICAN CHEMICALS, INC.

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Revision Date: 9/13/21

Emergency Phone Number: +1 (800) 424-9300

Ingestion: Mild nausea

Inhalation: Mild irritation

11.C. Effects from Exposure

Sensitization: No information available.

Carcinogenicity: Not found to be a potential carcinogen by OSHA, NTP, or the IARC

Mutagenic data: Not classified as a mutagen per GHS criteria.

Reproductive toxicity: Not classified as a developmental or reproductive toxin per GHS criteria.

STOT- single exposure: No information available.

STOT- repeated exposure: No information available.

11.D. Numerical Measures of Toxicity

LD50 Oral (Rat): >2000 mg/kg bw)

11.E. Hazardous Toxicology Listings:

None

Section 12: Ecological Information

12.A. Ecotoxicity

LC50 Fish 96h: >1000 (mg/L)

LC50 Daphnia 48h: >1000 (mg/L)

EC50 Green Algae 96h: >1000 (mg/L)

Fish Chronic Value: >100 (mg/L)

Daphnid Chronic Value: >100 (mg/L)

Algae Chronic Value: >100 (mg/L)

Fathead Minnow Survival: NOEC: 1.0g/L, LOEC: 3.00 g/L, IC50: 2.20 g/L

Fathead Minnow Growth: NOEC: 0.25g/L, LOEC: 0.50 g/L, IC50: 1.37 g/L

Ceriodaphnia Dubia Reproduction: NOEC: 0.25g/L, LOEC: 0.50 g/L, IC50: 0.43 g/L

Ceriodaphnia Dubia Survival: NOEC: 3.0g/L, LOEC: >3.00 g/L, IC50: >3.00 g/L

Selenastrum Growth: NOEC: 0.03 g/L, LOEC: 0.25 g/L, IC50: >3.00 g/L

12.B. Persistence and Degradability

Rapid biodegradation in the environment, 40% in 5 days.

12.C. Bio accumulative Potential

Believed not to bioconcentrate, because of the high water-solubility.

12.D. Mobility in Soil

Not expected to be absorbed in soil due to high water-solubility.

12.E. Other Adverse Effects

None Known.

Section 13: Disposal Considerations

Disposal instructions: Reuse or reprocess, if possible. Waste must be disposed of in accordance with federal, state, and local environmental control regulations. Small spills may be flushed into normal drainage into ground with copious amounts of water taken up with non-reactive absorbent material. Large spills should be held fro proper waste disposal.

Hazardous waste code: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste. If chemical additions are made to this material, or fi the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult ethe appropriate state, regional, or local regulations for additional requirements.

Waste from residues/unused: Dispose of in accordance with federal, state, and local environmental control regulations.

Contaminated packaging: Small containers should be emptied to the extent practical and disposed as ordinary trash.

Section 14: Transport Information

U.S. DOT 49 CFR 172.101: Not Regulated.

Canadian Transportation of Dangerous Goods: Not Regulated.

Maritime Transport (IMO/IMDG): Not Regulated.



Section 15: Regulatory Information

TSCA: Headwaters® Corrosion Inhibitor is on TSCA Inventory

OSHA Occupational Chemical Database: Not Listed.

OSHA Process Safety (PSM) (29 CFR 1910.119): Not Regulated.

CERCLA Sections 102a/103, Hazardous Substance (40 CFR 302.4): Not Regulated.

SARA Section 302, Extremely Hazardous Substance (EHS) Emergency Notification and Planning (40 CFR 355.30): Not Listed.

SARA Section 302, Extremely Hazardous Substance (40 CFR 355, Appendix A): Not Listed.

EPCRA Section 311/312, Hazardous Chemical Reporting (40 CFR 370.10): Not Listed.

EPCRA Section 313, Toxic Release Reporting (40 CFR 372.65): Not Regulated.

TSCA Section 12 (b) export Notification (40 CFR 707, Subpart D): Not Regulated.

Clean Air Act (CAA) Section 112(b) Hazardous Air Pollutants (HAPs) List: Not Regulated.

Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130): Not Regulated.

Clean Water Act (40 CFR 122.21 and 40 CFR 122.42): Not Regulated.

US Massachusetts Right-To-Know (RTK)- Substance List: Not Listed.

US New Jersey Worker and Community Right-to-Know Act: Not Listed.

US Pennsylvania RTK-Hazardous Substances: Not Listed.

US Rhode Island RTK: Not Listed.

US California Proposition 65: Not Listed.

Section 16: Other Information

Disclaimer: This SDS is provided to be used only as a guide. The information provided in this sheet relates strictly to the designated product as it is provided by Pelican Chemicals, Inc. The responsibility of the buyer of this product is to comply with all applicable governmental requirements and to determine safety conditions for the use of this product. Pelican Chemicals, Inc. is not responsible or liable for any damages that result from handling or contact with this product.