



Headwaters® SF40 (Sodium Formate, 40% Solution)

Safety Data Sheet (SDS)

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

1.A. Product Identifier

Product Name: Headwaters® SF40 (Sodium Formate, 40% Solution)

Product Form: Liquid

1.B. Other means of Identification

Synonyms: N/A

CAS #: 141-53-7

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

Product Uses: Anti-icing, de-icing liquid.

Recommended Restrictions: Consumer Use

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):

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

2.B. Label Elements

Signal Word: Not a hazardous substance or mixture

Hazard Statements:

Not a hazardous substance or mixture

Hazard Pictograms:

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Precautionary Statements:

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance

and ensure prompt removal from skin, eyes and clothing.

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 (%)
HCOONa	Sodium Formate	141-53-7		40%
Dihydrogen monoxide (H ₂ O)	Water	7732-18-5		60%

Section 4: First-Aid Measures

4.A. Description of Necessary Measures

General advice: If you feel unwell, obtain medical attention.

Eye contact: If substance has got into the eyes, immediately wash out with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing for at least 15 minutes. If symptoms persist, obtain medical attention.

Skin contact: Wash with plenty of water. If irritation (redness, rash, blistering) develops, obtain medical attention.

Ingestion: Do not induce vomiting. Wash out mouth with water. If large amount swallowed or symptoms develop obtain medical attention.

Inhalation: Remove patient from exposure, keep warm and at rest. If symptoms develop, obtain medical attention.

4.B. Description of Symptoms and Effects

General Symptoms/Injuries: Not expected to present significant symptoms under anticipated conditions of normal use.

Eye Contact: May cause mild eye irritation.

Skin Contact: May cause slight irritation to the skin.

Ingestion: May cause slight respiratory irritation.

Inhalation: May cause slight gastrointestinal irritation.

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

If exposed or concerned, get medical advice and attention.

Section 5: Fire-Fighting Measures

5.A. Extinguishing Media

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media: No information available

5.B. Specific Hazards

Description: No information available.

Hazardous combustion products: Non-Flammable, Non-Combustible liquid, that is not expected to be reactive under normal conditions.

5.C. Special Protective Equipment and Precautions for Fire-Fighters: In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode



Section 6: Accidental Release Measures

6.A. Personal Precautions, Protective Equipment, and Emergency Procedures; Avoid breathing vapor, mist, or spray. In case of spillage contain for proper disposal or recycling/ no special consideration for disposal

6.B. Containment and Clean-up:

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Section 7: Handling and Storage

7.A. Precautions for Safe Handling: Use only outdoors or in a well-ventilated area. Avoid all eye and skin contact, and do not breathe vapor and mist.

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. Wash contaminated clothing before reuse.

7.B. Conditions for Safe Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from any source of heat or ignition. Keep away from incompatible substances.

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 this product.

8.B. Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas

8.C. Individual Protection Measures

Respiratory Exposure Controls: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Eye Protection: Chemical goggles or safety glasses.

Hand Protection: Wear chemically resistant protective gloves.

Body Protection: Wear suitable protective clothing.

Work & Hygienic Practices: When using, do not eat, drink, or smoke. Practice good and safety industrial hygiene.

Section 9: Physical and Chemical Properties

Appearance:	Clear, colorless liquid
Odor:	Little or no detectable odor
Odor threshold:	No data available
pH:	8.0-11.0
Melting point:	No data available
Freezing point:	-14 °F
Boiling point/range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability:	No data available



Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density (@20°C):	1.265-1.275
Solubility:	Miscible
Partition Coefficient: N-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

Section 10: Stability and Reactivity

Reactivity:	No data available
Chemical stability:	Stable
Possibility of hazardous reactions:	Heat, flames and sparks
Conditions to avoid:	No data available
Incompatible materials:	Strong oxidizing agents, Strong acids, Strong bases
Hazardous decomposition products:	None under normal use conditions

Section 11: Toxicological Information

11.A. Symptoms

Eye Contact: May cause eye irritation.

Skin Contact: May cause skin irritation.

Ingestion: May be harmful if swallowed

Inhalation: May cause respiratory tract irritation if inhaled.

11.B. Effects from Exposure

Sensitization: Not classified

Carcinogenicity: Not classified

Mutagenic data: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: Not classified

STOT- repeated exposure: Not classified

11.C. Numerical Measures of Toxicity

Product (1): Sodium Formate

LD50 Oral Rat: 11200 mg/kg

Product (2): Water

LD50 Oral Rat: 90 mL/kg

11.D. Hazardous Toxicology Listings: No additional information available

Section 12: Ecological Information

12.A. Ecotoxicity

Product (1): Sodium Formate

LC50 Fish 1: 5000: 24 h Lepomis macrochirus mg/L LC50

LC50 Daphnia 1: 1000: 24 h Daphnia magna mg/L

12.B. Persistence and Degradability

No information available.



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Revision Date: 07/01/2021

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

12.C. Bio accumulative Potential

No information available.

12.D. Mobility in Soil;

No information available.

12.E. Other Adverse Effects: Avoid release to the environment.

Section 13: Disposal Considerations

Disposal instructions: Dispose of waste material in accordance with all local, regional, national, provincial, territorial, and international regulations.

Hazardous waste code: Not applicable

Section 14: Transport Information

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

Transport Hazard Class(es): Non-Hazmat

Packaging Group Number: Non-Hazmat

Environmental Hazards: Non-Hazmat

Guidance on transport in bulk: Not applicable

Special Precautions: Not applicable

Section 15: Regulatory Information

Not regulated (United States)

International Inventories

AICS Complies

TSCA Complies

DSL/NDSL Complies

EINECS/ELINCS Complies

ENCS -

IECSC Complies

KECL Complies

PICCS Complies

US Federal Regulations

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

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



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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

U.S. State Right-to-Know Regulations

California Proposition 65:

This product does not contain any Proposition 65 chemicals

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.