

Section 1. PRODUCT AND COMPANY IDENTIFICATION

SDS ID: 40-40853-5900-00 Rev. 1

Product Name: Luberfiner Coolant Conditioner Element

Catalog Numbers: LFW2055 LFW2126 LFW4018 LFW4071 LFW4072
 LFW4073 LFW4074 LFW4075 LFW4422 LFW4744
 LFW4860 LFW5141 LFW5870 LFW5875

Manufacturer:
 FRAM FILTRATION
 28399 Cedar Park Blvd.
 Perrysburg, OH 43551

TRANSPORTATION EMERGENCY PHONE NUMBER (Chemical Spills and Transport Accidents only):
 CHEMTREC 1-800-424-9300 (in the US) +1-703-527-3887 for International Calls

SDS Date of Preparation: 10/21/14

Product Use: Cooling system filter for trucks

Section 2. HAZARDS IDENTIFICATION

GHS/HAZCOM 2012 Classification:

This product is a manufactured article (truck coolant filter) containing solid pellets. The filter unit is sealed so no contact with the contents occurs during normal handling or use. No adverse effects are expected with normal handling of the metal filter. Contact with the pellets may cause adverse effects and are classified as follows:

Health	Physical
Acute Toxicity Category 3 Eye Corrosion Category 1 Skin Corrosion Category 1 Specific Target Organ Toxicity – Single Exposure Category 3 Carcinogen Category 1B Reproductive Toxicity Category 1B Germ Cell Mutagenicity Category 2	Oxidizing Solid Category 2 Metal Corrosive

Label Elements



DANGER!

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H272 May intensify fire; oxidizer
H290 May be corrosive to metals
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects through ingestion.
H350 May cause cancer through ingestion.
H360 May damage fertility or the unborn child.

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, sparks, open flames, hot surfaces. - No smoking.
P220 Store away from clothing, and combustible materials.
P221 Take any precaution to avoid mixing with combustibles.
P234 Keep only in original container.
P260 Do not breathe dust.
P264 Wash exposed skin thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, eye protection, and face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.
P308 + P313 IF exposed or concerned: Get medical advice.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry chemicals, CO₂, water spray (fog), or foam to extinguish.
P390 Absorb spillage to prevent material-damage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents and container in accordance with local and national regulations.

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Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

The Spin-on Coolant Filter is comprised of a filter media, which is a blend of cellulose and synthetic fibers. The media is in the form of a flat sheet. It is processed into a hollow cylinder by folding, wrapping, and sealing. A tin plated perforated steel core is placed inside the media cylinder to give it support and strength. The filter also contains a SCA, supplemental coolant additive. The SCA pellets are placed inside the core of the filter element. Tin plated steel end discs are attached to the ends of the media. This filtration element with the SCA pellets are then placed inside a cylindrical metal housing which is closed on one end. A perforated threaded steel end plate with a seal gasket is attached to the metal housing using a roll seaming operation. The SCA pellets are cylindrical, approximately .37" in diameter and .25" long. The perforated core and end discs are designed such that the holes are smaller than the size of the pellets, thus capturing them in the element assembly. These pellets dissolve while in service on the vehicle and help maintain the proper cooling system chemistry/corrosion protection. The amount of chemical charge varies depending on the particular application. It is determined by weight. This ranges from 0.06 pounds to 1.1 pounds

SCA (Supplemental Coolant Additive) Composition:

Component	CAS No.	Amount
Sodium Nitrite	7632-00-0	30-60%
Disodium Trioxosilicate	6834-92-0	10-30%
Benzotriazole	95-14-7	1-10%
Disodium tetraborate, anhydrous	1330-43-4	1-10%
Octadecanoic acid, magnesium salt (2:1)	557-04-0	1-5%
Sodium nitrate	7631-99-4	0.1-1.0%
1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxyphenyl)	77-09-8	0.1-1.0%

The exact concentrations are a trade secret.

Section 4. FIRST AID MEASURES

Eye: None expected with normal use. If contact occurs with filter pellets, immediately flush eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Get medical attention.

Skin: None expected with normal use. If contact with the filter pellets occurs, remove contaminated clothing. Immediately wash skin thoroughly with soap and water. If irritation develops or persists, get medical attention. Launder clothing before re-use. (Discard contaminated shoes)

Ingestion: None expected with normal use. If filter pellets, or dust is swallowed, DO NOT INDUCE VOMITING. If conscious, give one glass of water or milk. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

Inhalation: None expected with normal use. If dust from the filter pellets is inhaled, immediately remove to fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Get medical attention.

Most Important Symptoms: Corrosive. May cause eye and skin burns. Harmful or fatal if inhaled, ingested or absorbed through the skin. May cause nitrite poisoning. May be absorbed through the skin in harmful amounts. Inhalation of dust may cause respiratory irritation, coughing, nose bleeds, sore throat, shortness of breath and

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tightness in the chest. May cause cancer. Based on animal testing, ingredients show adverse effects on reproduction.

Indication of Immediate Medical Attention and Special Treatment, If Needed: Seek immediate medical attention for eye and skin contact with pellets or dust. Ingestion of dust or pellets will require immediate medical attention.

Notes to Physicians: The principal toxic effects of sodium nitrite poisoning are vasodilation and/or methemoglobinemia. Hypotension with syncope and tachycardia are common findings. Coronary vasospasm due to acute withdrawal may be seen. Paradoxical bradycardia may occur rarely. Coronary ischemia and cerebrovascular disease can occur due to severe hypotension. Immediate life support measures should be provided because of associated hypotension, seizures, and methemoglobinemia-induced anoxia. Immediately contact a poison center or hospital emergency department for treatment advice. The specific antidote for nitric induced methemoglobinemia is methylene blue.

Section 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use media dry chemicals, CO₂, water spray (fog), or foam.

Specific Hazards Arising From the Chemical: Product contains a strong oxidizer which enhances combustion. None expected from metal filters. Thermal decomposition of pellets may release carbon, nitrogen and metal oxides. Pellets may be sensitive to mechanical impact.

Special Fire Fighting Procedures: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Fight fire from maximum distance or use unmanned hose holders. Do not allow run-off from fire fighting to enter drains or water courses

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: If filters are damaged and pellets are released, evacuate spill area and keep unprotected personnel away. Remove all combustible or flammable materials from spill area if it is safe to do so. Wear appropriate protective clothing as described in Section 8.

Methods and Materials for Containment / Cleanup: Collect filters and place into appropriate container for disposal. Pick up pellets and place into container. Vacuum up remaining dust. Do not use combustible absorbents or towels. If spill occurs outdoors, cover the spill to prevent wind from spreading dust to the surrounding area. Report releases as required by local, state and federal authorities.

Section 7. HANDLING AND STORAGE

Precautions for Safe Handling: Wash thoroughly with soap and water after handling. Protect filters against physical damage.

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If filters are damaged and pellets are released, avoid contact with the eyes, skin and clothing. Avoid breathing dusts. Wear protective clothing and equipment. Wash thoroughly with soap and water after handling. Keep pellets or dust away from all flammable or combustible materials such as solvents, oil, paper, cloth rags, etc.

Conditions for Safe Storage, Including Any Incompatibilities: Store filters in a dry, well ventilated area away from excessive heat, sources of ignition and combustible materials.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Chemical	Exposure Limit
Sodium Nitrite	None Established
Disodium Trioxosilicate	None Established
Benzotriazole	None Established
Disodium tetraborate, anhydrous	2 mg/m ³ TWA ACGIH TLV (Inhalable) 6 mg/m ³ STEL ACGIH TLV (Inhalable)
Octadecanoic acid, magnesium salt (2:1)	None Established
Sodium nitrate	None Established
1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxyphenyl)	None Established

Appropriate Engineering Controls: General ventilation is adequate for normal use.

Personal Protective Equipment

Respiratory Protection: None needed for normal use. In situations where contact with the pellets is likely and the exposure limits are exceeded, a NIOSH approved particulate respirator (N95 or better filters) may be worn. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Skin Protection: None needed for normal use. In situations where contact with the pellets is likely, wear impervious gloves such as neoprene.

Eye Protection: None needed for normal use. In situations where contact with the pellets is likely, chemical safety goggles are recommended.

Other Protective Equipment / Clothing: None needed for normal use. In situations where contact with the pellets is likely, wear impervious clothing as needed to prevent contact. A safety shower and eyewash should be available in the immediate work area.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

The Spin-on Coolant Filter is comprised of a filter media, which is a blend of cellulose and synthetic fibers. The media is in the form of a flat sheet. It is processed into a hollow cylinder by folding, wrapping, and sealing. A tin plated perforated steel core is placed inside the media cylinder to give it support and strength. The filter also contains a SCA, supplemental coolant additive. The SCA pellets are placed inside the core of the filter element. Tin plated steel end discs are attached to the ends of the media. This filtration element with the SCA pellets are

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then placed inside a cylindrical metal housing which is closed on one end. A perforated threaded steel end plate with a seal gasket is attached to the metal housing using a roll seaming operation. The SCA pellets are cylindrical, approximately .37" in diameter and .25" long. The perforated core and end discs are designed such that the holes are smaller than the size of the pellets, thus capturing them in the element assembly. These pellets dissolve while in service on the vehicle and help maintain the proper cooling system chemistry/corrosion protection. The amount of chemical charge varies depending on the particular application. It is determined by weight. This ranges from 0.06 pounds to 1.1 pounds

The following physical characteristics are for the pellets only.

Appearance: White or yellow pellets.	Odor: Slight
Odor Threshold: Not Determined	pH: 10.5 Conc. in a 1% solution
Melting/Freezing Point: Not applicable	Boiling Point/Range: Not applicable
Flashpoint: >200°F (>93°C) CC	Evaporation Rate: <1 (ether (anhydrous) = 1)
Flammability (Solid, Gas): Not applicable	Flammable Limits: LEL: Not applicable UEL: Not applicable
Vapor Pressure: <0.013 mmHg	Vapor Density (Air = 1): <1.0
Relative Density: Not determined	Solubility In Water: Partially
Partition Coefficient (n-octanol/water): Not determined	Autoignition Temperature: Not available
Decomposition Temperature: Not determined	Viscosity: Not applicable

Section 10. STABILITY AND REACTIVITY

Reactivity: Pellets may ignite in contact with organic materials.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None expected under normal use conditions.

Conditions to Avoid: High temperatures, and organic materials.

Incompatibility Materials: The pellets are incompatible with strong acids, reducing agents, metals and moisture. Pellets may ignite in contact with organic materials.

Hazardous Decomposition Products: Thermal decomposition of pellets may release carbon, nitrogen and metal oxides.

Section 11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Acute Hazards:

Ingestion: None expected under normal use conditions. Ingestion of pellets may cause gastrointestinal irritation, dizziness, nausea, vomiting, bloody diarrhea, low blood pressure, convulsions, increase in urine output, and collapse. Overexposure to sodium nitrite may cause nitrite poisoning with symptoms including nausea, dizziness, vertigo, vomiting, collapse, cyanosis, abdominal pain, methemoglobinemia, rapid heart beat, irregular breathing, coma, convulsions, circulatory collapse and death.

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Inhalation: None expected under normal use conditions. Inhalation of pellet dust may cause severe respiratory irritation with symptoms of coughing, nose bleeds, sore throat, shortness of breath and tightness in the chest. Overexposure to sodium nitrite may occur with symptoms similar to those listed under ingestion.

Eye Contact: None expected under normal use conditions. Contact with pellets may cause eye burns or damage; and severe irritation with redness, tearing and pain.

Skin Contact: None expected under normal use conditions. Contact with pellets may cause burns and severe irritation with redness, itching and pain. Sodium nitrite and disodium tetraborate may be absorbed through the skin causing effects similar to those described under inhalation and ingestion.

Chronic Effects: None expected under normal use conditions. Prolonged or repeated exposure to pellets may cause mild gastroenteritis, dermatitis, eczema, headache, mental impairment, loss of hair, bronchitis, laryngitis, conjunctivitis, kidney and liver damage and anemia. Disodium tetraborate, and sodium nitrate have been found to cause adverse reproductive effects and/or birth defects in studies with laboratory animals. Sodium tetraborate has tested positive for mutagenicity in some test systems.

Carcinogenicity Listing: 1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxyphenyl) is listed by IARC as Group 2B possibly carcinogenic to humans. None of the other components are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.

Acute Toxicity Values:

Calculated ATE for Product:	ATE Oral: 266 mg/kg ATE Skin: 4500 mg/kg ATE Inhalation: > 5 mg/L/4hr.
Sodium Nitrite:	Oral Rat LD50 - 180 mg/kg Inhalation Rat LC50 - 5.5 mg/m ³ /4hr
Disodium Trioxosilicate:	Oral Rat LD50 - 1153 mg/kg Skin Rat LD50 > 5000 mg/kg Inhalation Rat LC50 - >2.06 mg/L/4hr
Benzotriazole:	Oral Rat LD50 - 560 mg/kg Skin Rabbit LD50 - 450 mg/kg
Disodium tetraborate:	Oral Rat LD50 - 2660 mg/kg Skin Rabbit LD50 - >1055 mg/kg Inhalation Rat LC50 - >2 mg/m ³ /4hr
Sodium nitrate:	Oral Rat LD50 - 3430 mg/kg Skin Rabbit LD50 - >5000 mg/kg
1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxyphenyl):	Oral Rat LD50 - >5000 mg/kg

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Sodium Nitrite:	LC50: Western mosquitofish, female 1.5 mg/L/ 96 hr. LC50: Daphnia magna 8.3 mg/L /96 hr.
Disodium Trioxosilicate:	LC50: Brachydanio rerio 210 mg/L/96 hr.

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Benzotriazole:	LC50 Danio rerio (Zebrafish) 180 mg/L/96 hr. EC50 Daphnia (Water flea) 15.8 mg /L/48 hr.
Disodium tetraborate:	LC50 Gambusia affinis (Western mosquitofish) 104 mg/L/96 hr. LC50 Daphnia magna (Water flea) 141 mg /L/48 hr.
Sodium nitrate:	LC50 Oncorhynchus my kiss (Rainbow trout) 1658 mg/L/96 hr. LC50 Daphnia magna (Water flea) 3581 mg/L /48 hr.
1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxyphenyl):	EC50 Daphnia magna (Water flea) >100 mg/L /48 hr.

Persistence and Degradability:

Sodium Nitrite:	Does not volatilize, and is likely to remain in water until consumed by plants or other organisms.
Benzotriazole:	Not readily biodegradable.
Octadecanoic acid, magnesium salt (2:1)	Magnesium is an essential element found in living cells and will not undergo biodegradation.
Sodium nitrate:	Does not volatilize, and is likely to remain in water until consumed by plants or other organisms.
1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxyphenyl):	Atmospheric half-life of about 4.5 hours

Bioaccumulative Potential:

Disodium tetraborate:	BCF 121 this BCF suggests the potential for bio concentration in aquatic organisms is low.
Octadecanoic acid, magnesium salt (2:1):	Magnesium is an essential nutrient for humans, animals, and plants
1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxyphenyl):	BCF 14, this BCF suggests the potential for bio concentration in aquatic organisms is low.

Mobility in Soil:

Benzotriazole:	Expected to have high mobility in soil
Octadecanoic acid, magnesium salt (2:1)	Under neutral and acidic conditions, magnesium salts are soluble and will be mobile in soils and sediment

Other Adverse Effects: None known

Section 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental regulations.

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Section 14. TRANSPORT INFORMATION
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U.S. DOT HAZARD CLASSIFICATION (For Ground Shipments Only):

UN2923, Corrosive Solids, Toxic, n.o.s. (Contains: Disodium Trioxosilicate, Sodium Nitrite), 8(6.1), PG III Limited Quantity

Note: Until: 12/31/2020 Consumer commodity, ORM-D is also acceptable.

Note: Packages with more than 166 lbs of pellets are subject to RQ requirements.

DOT MARINE POLLUTANTS: This product does not contain Marine Pollutants as defined in 49 CFR171.8.

IMDG CODE SHIPPING CLASSIFICATION:

UN2923, Corrosive Solids, Toxic, n.o.s. (Contains: Disodium Trioxosilicate, Sodium Nitrite), 8(6.1), PG III Limited Quantity

CANADIAN TDG CLASSIFICATION (For Ground Shipments Only): Limited Quantity

IATA INTERNATIONAL AIR TRANSPORT ASSOCIATION:

UN2923, Corrosive Solids, Toxic, n.o.s. (Contains: Disodium Trioxosilicate, Sodium Nitrite), 8(6.1), PG III Limited Quantity

Supplemental Information:

CAT Catalog #	Dangerous Goods / Hazardous Material Wt. Per Filter in Kilograms (kg)	Dangerous Goods / Hazardous Material Wt. Per Filter in Pounds (lbs)
LFW2055	.16	.36
LFW5870	.10	.23
LFW4018	.50	1.11
LFW5141	.06	.13
LFW4071	.03	.06
LFW4072	.04	.09
LFW4073	.06	.13
LFW4074	.09	.19
LFW5875	.06	.13
LFW4075	.10	.23
LFW4422	.08	.17
LFW4744	.03	.06
LFW4860	.06	.13
LFW2126	.06	.13

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Section 15. REGULATORY INFORMATION

CERCLA: This product has a Reportable Quantity (RQ) of 166 lbs. based on the RQ for Sodium Nitrite of 100 lbs. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

CALIFORNIA PROPOSITION 65: The normal consumer use of this product does not result in exposures to chemicals known to the State of California to cause Cancer and/or Reproductive Harm above the significant risk level for carcinogens or the maximum allowable dose levels for reproductive toxins. Therefore, no warnings are required for consumer packages.

SARA Hazard Category (311/312): Pellets: Acute Health, Chronic Health.

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Sodium Nitrite	7632-00-0	30-60%
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EPA TSCA Inventory: All of the ingredients in this product are listed on the EPA TSCA Inventory.

CANADA:

This product has been classified under the CPR and this SDS discloses information elements required by the CPR.

Canadian WHMIS Classification: Manufactured article

Canadian Environmental Protection Act: This product is an article and exempted from the Canadian Domestic Substances List.

Australia: This product is an article and exempted from the Australian Inventory of Chemical Substances.

China: This product is an article and exempted from the Inventory of Existing Chemical Substance in China (IECSC).

European Inventory Of Existing Commercial Chemical Substances (EINECS): This product is an article and exempted from the EINECS inventory.

Korea: This product is an article and exempted from the Korean Existing Chemical List (KECL).

Japan: This product is an article and exempted from the Japanese Existing and New Chemical Substances (METI) List.

Korea: This product is an article and exempted from the Korean Existing Chemical List (KECL).

New Zealand: This product is an article and exempted from the New Zealand Inventory of Chemicals.

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Philippines: This product is an article and exempted from the Philippine Inventory of Chemical and Chemical Substance (PICCS).

Taiwan: This product is an article and exempted from the Taiwan New and Existing Chemical Inventory.

Section 16. OTHER INFORMATION

Ratings for filter contents:

NFPA Rating: Health = 3. Fire = 0 Instability = 0

HMIS Rating: Health = 3* Fire = 0 Physical Hazards = 0

Revision Summary: All Sections – conversion to Hazcom 2012 classification and labeling and format.

SDS Date of Preparation / Revision: October 21, 2014

Disclaimer of Liability:

The information contained herein is based on the data available to us and, is to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we assume no liability for damages incurred by use of this material. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist. Users of this product should satisfy themselves that the conditions and methods of use assure the product is used safely. No representatives or warranties, either expressed or implied, or any nature are made hereunder with respect to the information contained within. It is the responsibility of the user to comply with any and all federal, state or local laws and regulations that may exist. Nothing contained herein is to be construed as a recommendation for use in violation of any applicable laws or regulations.