



MATERIAL SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION

MSDS ID: MSDS514

Product Name: FRAM[®] Spin-on Coolant Filter with Supplemental Coolant Additive DCA-4 Pellets
Product Code: PR3907; PR3908; PR3909; PR3910; PR3911; PR8693, FK3886, FK7131, FK7132, FK7788, FK8139, FK9297, FK9299

Manufacturer:

US Office:

Honeywell Consumer Products Group
39 Old Ridgebury Road
Danbury, CT 06810-5109

Canadian Office:

Honeywell Consumer Products Group
3333 Unity Drive
Mississauga, Ontario L5L 3S6

Telephone: (800)862-7737

Telephone: (800)668-9349

Emergency Phone: CHEMTREC: (800) 424-9300

MSDS Date of Preparation: 10/30/06

Product Use: Cooling system filter for trucks

Section 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Dipotassium Phosphate	7758-11-4	0-40%
Potassium Nitrate	7757-79-1	5-20%
Sodium Molybdate	7631-95-0	4-15%
Sodium Nitrite	7632-00-0	4-30%
Mercaptobenzothiazole	149-30-4	4-8%
Sodium Silicate	6834-92-0	2-6%

Section 3. HAZARDS IDENTIFICATION

This product is a metal filter containing white pellets.

EMERGENCY OVERVIEW

This product is a manufactured article (truck coolant filter) containing white pellets that are an oxidizer. 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 the following adverse effects:

Oxidizer. Contact with other materials may cause fire. May cause eye and skin irritation. 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 tightness in the chest. Harmful or fatal if inhaled, ingested or absorbed through the skin. May cause nitrite poisoning.



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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.

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

Flashpoint: None

Flammable Limits: LEL: Not applicable UEL: Not applicable

Autoignition Temperature: Not available

Extinguishing Media: Use media appropriate to the surrounding materials. If filters are damaged and pellets are released, use water to extinguish fire. Do not use dry chemicals or foams.

Unusual Fire or Explosion Hazards: If pellets are released from the filter during a fire, product may accelerate burning or decompose explosively. Pellets that come in contact with combustibles may cause ignition.

Special Fire-Fighting Instructions: 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. Runoff may cause pollution.

Hazardous Combustion Products: None expected from metal filters. Thermal decomposition of pellets may release hydrogen gas and oxides of nitrogen, potassium, sulfur, molybdate and phosphorous.

Explosion Data (sensitivity to mechanical impact or static discharge): Pellets may be sensitive to mechanical impact.



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Section 6. ACCIDENTAL RELEASE MEASURES

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. 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

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

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.

Storage: Store filters in a dry, well ventilated area away from excessive heat and sources of ignition. Avoid storage on wooden floors.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Dipotassium Phosphate	None Established
Potassium Nitrate	None Established
Sodium Molybdate	3 mg/m ³ TWA ACGIH TLV (respirable fraction)
Sodium Nitrite	None Established
Mercaptobenzothiazole	5 mg/m ³ TWA skin AIHA WEEL
Sodium Silicate	None Established

Engineering Controls: General ventilation is adequate for normal use.

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 rubber.

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

Other: 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.



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Section 9. PHYSICAL AND CHEMICAL PROPERTIES

The following physical characteristics are for the pellets only.

Appearance and Odor: White pellets.

Physical State: Solid	Boiling Point: Not applicable
Vapor Density: Not applicable	Vapor Pressure: Not applicable
Solubility In Water: Soluble	Evaporation Rate: Not applicable
Specific Gravity: Not applicable	pH: Not applicable
Melting Point: Not applicable	Octanol/Water Coefficient: Not determined

Section 10. STABILITY AND REACTIVITY

Stability: Stable under normal storage and handling conditions.

Incompatibility: The pellets are incompatible with strong acids, reducing agents, cyanides, alkali metals, interhalogens and metallic salts. Pellets may ignite on contact with organic materials.

Hazardous Decomposition Products: Thermal decomposition of pellets may release hydrogen gas and oxides of nitrogen, potassium, sulfur, molybdate and phosphorous.

Hazardous Polymerization: Will not occur.

Section 11. TOXICOLOGICAL INFORMATION

HEALTH 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.

Inhalation: None expected under normal use conditions. Inhalation of pellet dust may cause 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: None expected under normal use conditions. Contact with pellets may cause irritation with redness, tearing and pain.

Skin: None expected under normal use conditions. Contact with pellets may cause irritation with redness, itching and pain. Sodium molybdate may cause a rash to occur which is difficult to heal. Sodium molybdate may be absorbed through the skin causing cramping, vomiting hypertension and anemia.

Sensitization: Metcaptobenzothiazole has been found to cause contact dermatitis.

Chronic: 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. Sodium molybdate, potassium nitrate, mercaptobenzothiazole and sodium silicate have been found to cause adverse reproductive effects and/or birth defects in studies with laboratory animals.

Carcinogenicity: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.



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Mutagenicity: Sodium molybdate, potassium nitrate and mercaptobenzothiazole have tested positive for mutagenicity in some test systems.

Medical Conditions Aggravated by Exposure: None expected under normal use conditions. Employees with pre-existing skin, respiratory and kidney disease may be at increased risk from exposure to the pellets.

Acute Toxicity Values:

- Dipotassium Phosphate: No data available
- Potassium Nitrate: Oral Rat LD50 – 3,750 mg/kg
- Sodium Molybdate: Oral Rat LD50 – 4 g/kg
Inhalation Rat LC50 - > 2,080 mg/m³
- Sodium Nitrite: Oral Rat LD50 - 180 mg/kg
- Mercaptobenzothiazole: Oral Rat LD50 – 100 mg/kg
Inhalation Rat LC50 - > 1,270 mg/m³
Skin Rabbit LD50 - >7,940 mg/kg
- Sodium Silicate: Oral Rat LD50 – 1,153 mg/kg

Section 12. ECOLOGICAL INFORMATION

- Dipotassium Phosphate: No data available
- Potassium Nitrate: No data available
- Sodium Molybdate: No data available
- Sodium Nitrite: LC50/96 hour minnow: >100 mg/L
- Mercaptobenzothiazole: No data available
- Sodium Silicate: 96 hour mean tolerance fish: 2320 ppm
96 hour mean tolerance daphnia: 247 ppm

Section 13. DISPOSAL CONSIDERATIONS

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

Section 14. TRANSPORT INFORMATION

Inner packagings not over 5 kg (11 lbs.) net capacity can be re-classified as a consumer commodity

Dot Hazardous Materials Description:

- Proper Shipping Name: Oxidizing, solid, n.o.s. (Sodium Nitrite, Potassium Nitrate)
- UN Number: UN1479
- Hazard Class/Packing Group: 5.1, PG III
- Labels Required: Oxidizer
- Note: If >333 pounds of this product in a single container, RQ requirements apply.



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Section 15. REGULATORY INFORMATION

CERCLA: This product has a Reportable Quantity (RQ) of 333 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.

SARA Hazard Category (311/312): Not applicable

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

Mercaptobenzothiazole	149-30-4	4-8%
Sodium Nitrite	7632-00-0	4-30%
Nitrate Compounds (Potassium Nitrate)	7757-79-1	5-20%

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 MSDS discloses information elements required by the CPR.

Canadian WHMIS Classification: Manufactured article

Section 16. OTHER INFORMATION

NFPA Rating: Health = 1 Fire = 0 Instability = 0 Special: OX
HMIS Rating: Health = 2* Fire = 0 Physical Hazards = 0

Revision Summary: Footer: Corrected pagination

Disclaimer of Liability:

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Consult Honeywell CPG for further information.