



# MATERIAL SAFETY DATA SHEET

## Section 1. PRODUCT AND COMPANY IDENTIFICATION

**MSDS ID:** MSDS516

**Product Name:** FRAM<sup>®</sup> Spin-on Coolant Filter with Supplemental Coolant Additive ES Coated Tablet

**Product Code:** PR8692

**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
Sodium Tetraborate	1303-96-4	5-10%
Sodium Nitrite	7632-00-0	30-60%
Sodium Silicate	6834-92-0	15-30%

## Section 3. HAZARDS IDENTIFICATION

This product is a metal filter containing beige tablets.

### EMERGENCY OVERVIEW

This product is a manufactured article (truck coolant filter) containing beige tablets 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 tablets 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 tablets, 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 tablets 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 tablets 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 tablets 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 tablets are released, use water to extinguish fire. Do not use dry chemicals or foams.

**Unusual Fire or Explosion Hazards:** If tablets are released from the filter during a fire, product may accelerate burning or decompose explosively. Tablets 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 tablets may release carbon and nitrogen oxides and hydrogen gas.

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



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## Section 6. ACCIDENTAL RELEASE MEASURES

If filters are damaged and tablets 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 tablets 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 tablets 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 tablets 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:

Sodium Tetraborate	2 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable) 6 mg/m <sup>3</sup> STEL ACGIH TLV (inhalable)
Sodium Nitrite	None Established
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 tablets 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 tablets is likely, wear impervious gloves such as rubber.

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

**Other:** None needed for normal use. In situations where contact with the tablets 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 tablets only.

**Appearance and Odor:** Beige tablets.

<b>Physical State:</b> Solid	<b>Boiling Point:</b> Not applicable
<b>Vapor Density:</b> Not applicable	<b>Vapor Pressure:</b> Not applicable
<b>Solubility In Water:</b> 83%	<b>Evaporation Rate:</b> Not applicable
<b>Specific Gravity:</b> Not applicable	<b>pH:</b> Not applicable
<b>Melting Point:</b> Not applicable	<b>Octanol/Water Coefficient:</b> Not determined

## Section 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal storage and handling conditions.

**Incompatibility:** The tablets are incompatible with strong acids, reducing agents, cyanides, ammonium salt and metallic salts. Tablets ignite on contact with organic materials.

**Hazardous Decomposition Products:** Thermal decomposition of tablets may release carbon and nitrogen oxides and hydrogen gas.

**Hazardous Polymerization:** Will not occur.

## Section 11. TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**Ingestion:** None expected under normal use conditions. Ingestion of tablets 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 tablet 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 tablets may cause irritation with redness, tearing and pain.

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

**Sensitization:** This product is not expected to cause sensitization.

**Chronic:** None expected under normal use conditions. Prolonged or repeated exposure to filter contents may cause mild gastroenteritis, dermatitis, eczema, headache, mental impairment, loss of hair, bronchitis, laryngitis, conjunctivitis, kidney and liver damage and anemia. Sodium tetraborate 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.

**Mutagenicity:** Sodium tetraborate has tested positive for mutagenicity in some test systems.



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**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 tablets.

**Acute Toxicity Values:**

Sodium Tetraborate: Oral Rat LD50 – 2,660 mg/kg

Sodium Nitrite: Oral Rat LD50 - 180 mg/kg

Sodium Silicate: Oral Rat LD50 – 1,153 mg/kg

**Section 12. ECOLOGICAL INFORMATION**

Sodium Nitrite: LC50/96 hour minnow: >100 mg/L

Sodium Teraborate: LC50/96-hour fish: 74 mg/L

EC50/24-hour daphnia: 242 mg/L

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. (contains Sodium Nitrite)

UN Number: UN1479

Hazard Class/Packing Group: 5.1 PG III

Labels Required: Oxidizer (5.1)

Note: If >166 pounds of this product in a single container, RQ requirements apply.

**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.

**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):

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 MSDS discloses information elements required by the CPR.

**Canadian WHMIS Classification:** Manufactured article

<b>Section 16. OTHER INFORMATION</b>
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**Revision Summary:** Section 1: Product Name

**Ratings for filter contents:**

**NFPA Rating:** Health = 1      Fire = 0      Instability = 0      Special: OXY

**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.