



SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION

SDS ID: SDS637

Product Name: MACK® Spin-on Coolant Filter with Supplemental Coolant Additive

Product Code: XPR9884VL (Volvo # 21937313); XPR9884VLSV (Volvo # 21937313); XPR9884MK (Mack # 21937331); XPR9884MK1SV (Mack # 21937331); XPR393AMK6SV (Mack # 25MF435B &/or # 21938497); XPR3433AMK6SV (Mack # 25MF436B &/or # 21938503); XFK3352MK6SV (Mack # 57GC294C); XFK3938MK5SV (Mack # 57GC2135C); XFK6899MK4SV (Mack # 57GC2120C); XFK8407MK2SV (Mack # 57GC2177B); XFK7671MK1SV (Mack # 215SB203A); XFK9521MKSV (Mack # 57GC2232); XFK9523MK1SV (Mack # 57GC2234); XFK9821MK1SV (Mack # 57GC2245); XFK3434MK6SV (Mack # 57GC295C); XFK3937MK5SV (Mack # 57GC2136C); XFK9938MK1SV (Mack # 215SB332).

Manufacturer:

US Office:

FRAM Group Operations LLC
Perrysburg, OH 43551

Canadian Office:

FRAM Group (Canada), Inc.
Mississauga, Ontario L5L 3S6

MEDICAL EMERGENCIES AND ALL OTHER INFORMATION PHONE NUMBER:

(800)890-2075 (in the US)

(800)668-9349 (in Canada)

TRANSPORTATION EMERGENCY PHONE NUMBER (Chemical Spills and Transport Accidents only):

CHEMTREC 1-800-424-9300 (in the US)

CANUTEC (613)996-6666 (in Canada)

SDS Date of Preparation: 1/27/16

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	Environmental
Acute Toxicity Category 3 (Oral) Skin Corrosion Category 1B Eye Damage Category 1 Specific Target Organ Toxicity – Single Exposure Category 3 (Respiratory Irritation) Carcinogen Category 1B Toxic to Reproductive Category 1B	Not Hazardous	Hazardous to the Environment Acute Toxicity Category 1 Hazardous to the Environment Chronic Toxicity Category 3



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Label Elements



DANGER!

H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage
H335 May cause respiratory irritation.
H350 May cause cancer through ingestion.
H360 May damage fertility or the unborn child.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust.
P264 Wash thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection, and face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTER or doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water.
P363 Wash contaminated clothing before reuse.
P310 Immediately call a POISON CENTER or doctor.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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P310 Immediately call a POISON CENTER or doctor.
P308 + P313 IF exposed or concerned: Get medical attention.
P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

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

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Sodium Nitrite	7632-00-0	30-60%
Sodium Metasilicate	6834-92-0	10-30%
Tolytriazole	29385-43-110-20	5-10%
Benzotriazole	95-14-7	1-5%
Disodium tetraborate, anhydrous	1330-43-4	1-5%
Phenolphthalein	77-09-8	<1%

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 20 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 for at least 15 minutes. 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. Causes eye and skin burns. May be absorbed through the skin in harmful amounts. May cause nitrite poisoning. Inhalation of dust may cause respiratory irritation, coughing, nose bleeds, sore throat, shortness of breath and tightness in the chest. May cause cancer. Toxic if swallowed. May cause cancer and reproductive toxicity based on animal data.



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Indication of Immediate Medical Attention and Special Treatment, If Needed: Get immediate medical attention for all routes of exposure.

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, carbon dioxide, water spray (fog), foam or sand

Specific Hazards Arising From the Chemical: None expected from metal filters. Pellets contains a strong oxidizer which enhances combustion. Thermal decomposition of pellets may release carbon monoxide, carbon dioxide and corrosive vapors.

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.

NFPA CLASSIFICATION: None

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Chemical	Exposure Limit
Sodium Nitrite	None Established
Sodium Metasilicate	None Established
Tolytriazole	None Established
Benzotriazole	None Established
Disodium tetraborate, anhydrous	2 mg/m ³ TWA ACGIH TLV (Inhalable) 6 mg/m ³ STEL ACGIH TLV (Inhalable)
Phenolphthalein	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.

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



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Section 9. PHYSICAL AND CHEMICAL PROPERTIES

The following physical characteristics are for the pellets only.

Appearance: White or yellow pellets.	Odor: Odorless
Odor Threshold: Not determined	pH: 10.5 Conc. in a 1% solution
Melting/Freezing Point: Not applicable	Boiling Point/Range: Not applicable
Flashpoint: Not applicable	Evaporation Rate (ether (anhydrous) = 1): Not applicable
Flammability (Solid, Gas): Not flammable	Flammable Limits: LEL: Not applicable UEL: Not applicable
Vapor Pressure: Not applicable	Vapor Density (Air = 1): Not applicable
Relative Density: 0.88	Solubility In Water: Not available
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 and bases. Pellets may ignite in contact with organic materials.

Hazardous Decomposition Products: Thermal decomposition of pellets may release carbon monoxide, carbon dioxide and corrosive vapors.



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Section 11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Acute Hazards:

Ingestion: None expected under normal use conditions. Toxic if swallowed. 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 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. This product contains less than 10% tolyltriazole which has demonstrates mutagenic activity in a bacterial test system. A correlation has been established between mutagenic activity and carcinogenic activity for many chemicals. Tolyltriazole has not been identified as a carcinogen or probable carcinogen by NTP, IARC or OSHA.

Carcinogenicity Listing: Phenolphthalein is listed by IARC as “Possibly Carcinogenic to Humans”, Group 2B and “reasonable Anticipated to be a Human Carcinogen by NTP. 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: 142.6 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/m³/4hr

Sodium Metasilicate: Oral Rat LD50 - 1153 mg/kg
 Skin Rat LD50 > 5000 mg/kg



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Inhalation Rat LC50 >2.06 mg/L/4 hr

Tolytriazole: Oral rat LD50 720 mg/kg
Skin rabbit LD50 >2000 mg/kg

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/m³/4hr

Phenolphthalein:

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.
Tolytriazole: LC50: Cyprinodon variegatus 55 mg/L/96 hr
EC50: Daphnia magna 137 mg/L/48 hr
EC50: Skeletonema costatum 53 mg/L/72 hr
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.

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.

Bioaccumulative Potential:

Disodium tetraborate: BCF 121. This BCF suggests the potential for bio concentration in aquatic organisms is low.

Mobility in Soil:

Benzotriazole: Expected to have high mobility in soil.

Other Adverse Effects:

This product is very toxic to the aquatic environment. This product is harmful to aquatic life with long lasting effects.



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Section 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental regulations

Section 14. TRANSPORT INFORMATION

U.S. DOT HAZARD CLASSIFICATION (For Ground Shipments Only): Shipper Weight Max = 30 kg

PROPER SHIPPING NAME: Corrosive Solids, Toxic, n.o.s.

TECHNICAL NAME: (Disodium Trioxosilicate, Sodium Nitrite)

UN NUMBER: UN2923

HAZARD CLASS: 8(6.1)

PACKING GROUP: PG III

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

NOTE: Packages with more than 180 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: Shipper weight Max = 30 kg

PROPER SHIPPING NAME: Corrosive Solids, Toxic, n.o.s.

TECHNICAL NAME: (Disodium Trioxosilicate, Sodium Nitrite)

UN NUMBER: UN2923

HAZARD CLASS: 8 (6.1)

PACKING GROUP: PG III

LABELS REQUIRED: Limited Quantity Mark

PLACARDS REQUIRED: Limited Quantities on Cargo Transport Container, Marine Pollutant

CANADIAN TDG CLASSIFICATION (For Ground Shipments Only)

PROPER SHIPPING NAME: Corrosive Solids, Toxic, n.o.s.

TECHNICAL NAME: (Disodium Trioxosilicate, Sodium Nitrite)

UN NUMBER: UN2923

HAZARD CLASS: 8(6.1)

PACKING GROUP: PG III

Section 15. REGULATORY INFORMATION

CERCLA: This product has a Reportable Quantity (RQ) of 180 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.



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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%
Phenolphthalein	77-09-8	<1%

EPA TSCA Inventory: All of the ingredients in this product are listed on the EPA TSCA Inventory.

Canadian Environmental Protection Act: All of the ingredients are listed or exempt from the Canadian Domestic Substances List.

Australia: All of the ingredients of this product are listed on or exempt from the Australian Inventory of Chemical Substances.

China: All of the ingredients of this product are listed on or exempt from the Inventory of Existing Chemical Substance in China (IECSC).

European Inventory Of Existing Commercial Chemical Substances (EINECS): All of the ingredients are listed on or exempt from the EINECS inventory.

Korea: All of the ingredients of this product are listed on or exempt from the Korean Existing Chemical List (KECL).

Japan: All of the ingredients of this product are listed on or exempt from the Japanese Existing and New Chemical Substances (METI) List.

New Zealand: All of the ingredients of this product are listed on or exempt from the New Zealand Inventory of Chemicals.

Philippines: All of the ingredients of this product are listed on or exempt from the Philippine Inventory of Chemical and Chemical Substance (PICCS).

Taiwan: All of the ingredients of this product are listed on or exempt from the Taiwan New and Existing Chemical Inventory.



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MACK® Spin-on Coolant Filter with Supplemental Coolant Additive

XPR9884VL (Volvo # 21937313); XPR9884VLSV (Volvo # 21937313); XPR9884MK (Mack # 21937331); XPR9884MKS (Mack # 21937331); XPR393AMK5SV (Mack # 25MF435B &/or # 21938497); XPR3433AMK5SV (Mack # 25MF436B &/or # 21938503); XFK3352MK5SV (Mack # 57GC294C); XFK3938MK4SV (Mack # 57GC2135C); XFK6899MK3SV (Mack # 57GC2120C); XFK8407MK1SV (Mack # 57GC2177B); XFK7671MK1SV (Mack # 215SB203A); XFK9521MKS (Mack # 57GC2232); XFK9523MKS (Mack # 57GC2234); XFK9821MKS (Mack # 57GC2245); XFK3434MK5SV (Mack # 57GC295C); XFK3937MK4SV (Mack # 57GC2136C); XFK6899MK3SV (Mack # 57GC2120C); XFK9938MKS (Mack # 215SB332).

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: Changed in formulation. Section 2 Classification, Label Elements, Section 3 Composition, Section 8 Exposure Limits, Section 11 Acute Toxicity Values, Section 12, Ecotoxicity, Other Adverse Effects

SDS Date of Preparation / Revision: April 8, 2016

Disclaimer of Liability:

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Consult Fram Group 1-800-890-2075 for further information.