Safety Data Sheet
W1004N
Coolant Filters / Conditioners

Section 1 PRODUCT AND COMPANY IDENTIFICATION

Product Number: NAPA 4082, 4085, 4090

Trade Name and Synonyms: NAPA Coolant Filters / Conditioners

Chemical Name and Synonyms: Phosphate-nitrite-molybdate corrosion inhibitor
Chemical Family: Industrial water treatment
Product Use: Vehicle coolant treatment
Restrictions on use: Use only as directed
MSDS Date of Preparation: December 19, 2014

Manufacturer
Wix Filtration Products Division, Affinia Group
PO Box 1967
Gastonia, NC 28053

Telephone Numbers
Product Information: (704) 869-3869
Emergency Phone: (800) 424-9300
Chemtrec

2. HAZARD(S) IDENTIFICATION

Classification:

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

Physical	Health
Oxidizing Solid Category 3	Acute Toxicity Category 3 (Oral) Acute Toxicity Category 4 (Inhalation) Eye Damage Category 1

Labeling:

Danger!

Hazard statement(s)

May intensify fire: oxidizer.
Toxic if swallowed.
Harmful if inhaled.
Causes serious eye damage.

Precautionary statement(s)

Keep away from heat.
Keep away from clothing and other combustible materials.
Take any precaution to avoid mixing with combustible materials.
Avoid breathing dust.
Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves and eye protection.
IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Rinse mouth.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor if you feel unwell.
In case of fire: Use water fog, foam, dry chemical or carbon dioxide to extinguish.
Store locked up.
Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Tetrapotassium pyrophosphate	7320-34-5	20-40%
Sodium Nitrite	7632-00-0	15-30%
Sodium Molybdate	7631-95-0	5-15%
Potassium Nitrate	7757-79-1	5-15%

The specific identity and/or exact concentration has been withheld as a trade secret.

4. FIRST-AID MEASURES

Eye: None expected under normal handling and 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 immediate medical attention.
Skin contact: None expected with normal use. If contact with the filter pellets occurs, remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops.
Inhalation: None expected with normal use. If dust from tablet is inhaled, remove to fresh air. If irritation develops or if breathing is difficult, get medical attention.
None expected with normal use. If filter pellets, or dust is swallowed, do not induce vomiting. If conscious, rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.
Most important symptoms/effects, acute and delayed: None expected under normal conditions of use. The following applies to contact with the table if the coolant filer is broken and the tablet is exposed: Eye contact may cause severe irritation or burns. Permanent damage may occur. May cause skin irritation. Inhalation of dust may cause mucous membrane and respiratory tract irritation. May be harmful if inhaled. Toxic if swallowed. Swallowing may cause burns to the digestive tract, central nervous system effects, cyanosis, convulsions and collapse.

Indication of immediate medical attention and special treatment, if necessary: None expected under normal conditions of use. If eye contact occurs, get immediate medical attention. If swallowed, get immediate medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide to extinguish.

Specific hazards arising from the chemical: The tablet is not flammable or combustible. The tablet contains potassium nitrate and sodium nitrite which are oxidizers and can enhance the burning of other materials. Combustion may produce oxides of carbon, nitrogen, molybdenum, phosphorus and sodium.

Special protective equipment and precautions for fire-fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire exposed containers and structures with water. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Use appropriate protective clothing and equipment during clean-up.

Environmental hazards: Avoid release into the environment. Report spill as required by local and federal regulations.

Methods and materials for containment and cleaning up: If filter is not damaged, pick up and keep for use. If the filter is damaged and the tablet is released, collect in a manner that minimizes the generation of airborne dust. Place collected material into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Handle filters in a manner that minimizes the risk of damage and release of contents. In handling damaged filters, avoid generating and breathing dusts. Prevent contact with eyes. Avoid contact with skin and clothing.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well-ventilated area away from combustible materials, acids and other incompatible materials

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines:

Tetrapotassium pyrophosphate	None Established
Sodium nitrite	None Established
Sodium Molybdate (as soluble Mo)	0.5 mg/m3 respirable TWA ACGIH TLV 5 mg/m3 TWA OSHA PEL
Potassium Nitrate	None Established

Appropriate engineering controls: No special engineering controls are required for handling undamaged filters.

Personal Protective Equipment
Respiratory protection: None required under normal conditions of use. For operations where exposures are excessive or irritation is experienced, a NIOSH approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134 and good Industrial Hygiene practice.
Skin protection: None required under normal conditions of use. Wear rubber or other impervious gloves when handling damaged filters or tablets.
Eye protection: None required under normal conditions of use. Safety goggles required for handling damaged filters or tablets.

9. PHYSICAL AND CHEMICAL PROPERTIES

The following physical characteristics are for the pellets only.

Appearance (physical state, color, etc.): Beige tablet inside a coolant filter
Odor: Odorless

Odor threshold: Not available	**pH:** Not available
Melting point/freezing point: Not available	**Boiling point/Range:** Not applicable
Flash point: Not applicable	**Evaporation rate:** Not applicable
Flammability (solid, gas): Not flammable	
Flammable limits: LEL: Not applicable	**UEL:** Not applicable
Vapor pressure: Not applicable	**Vapor density:** Not applicable
Relative density: Not available	**Solubility(ies):** 83% in water
Partition coefficient: n-ctanol/water: Not applicable	**Auto-ignition temperature:**
Decomposition temperature: Not available	**Viscosity:** Not applicable

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: Avoid extreme heat.
Incompatible materials: Incompatible with oxidizing materials, reducing agents, organic materials, acids and moisture
Hazardous decomposition products: Thermal decomposition will generate oxides of carbon, nitrogen, molybdenum, phosphorus and sodium.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects: Handling undamaged filters will not result in adverse effects. The following information pertains to exposure to the coolant treatment tablets.

Eye contact: May cause severe irritation or burns with redness, tearing and pain. Permanent damage can occur.
Skin contact: May cause irritation. Sodium nitrite may be harmful if absorbed through the skin.
Inhalation: Dust may cause irritation of the mucous membranes and upper respiratory tract. Absorption may cause effects similar to those described under ingestion.
Ingestion: Toxic if swallowed. May cause burns to the mouth and throat, dizziness, nausea, vomiting, low blood pressure, cyanosis, rapid heartbeat, convulsions and collapse.

Chronic effects: Prolonged or repeated exposure may cause nervous system effects, liver damage, kidney damage and effects on the blood.

Reproductive Toxicity: None of the components have been shown to cause reproductive toxicity.

Carcinogenicity: Molybdenum compounds have been shown to cause cancer in laboratory animals. In a two year study in mice, molybdenum trioxide showed some evidence of carcinogenic activity in male and female mice based on increased incidences of alveolar/bronchiolar carcinoma and adenoma or carcinoma. A two year study showed equivocal evidence of carcinogenic activity in male rats based on a marginally significant positive trend of alveolar/bronchiolar adenoma or carcinoma (combined).There was no evidence of carcinogenic activity of molybdenum trioxide in female rats. Soluble molybdenum compounds are classified by ACGIH as A3 (confirmed animal carcinogen with unknown relevance to humans). None of the other components of this product present at 0.1% or greater are listed as carcinogens by ACGIH, IARC, NTP or OSHA

Acute Toxicity Values:
Acute Toxicity Estimate for the Product: Oral: 268.8 mg/kg, dermal >2000 mg/kg
Tetrapotassium pyrophosphate: Oral rat LD50 4260 mg/kg, Dermal rat LD50 >5000 mg/kg, Inhalation rat LC50 >1.1 mg/L/4 hr. (maximum attainable concentration)
Sodium Nitrite: Oral rat LD50 85 mg/kg
Sodium Molybdate: Oral rat LD50 3178 mg/kg, Inhalation rat LC50 >3.92 mg/L/4 hr (maximum attainable concentration), Dermal rat LD50 >2000 mg/kg
Potassium Nitrate: Oral rat LD50 >2000 mg/kg, Inhalation rat LC50 >0.527 mg/L/4 hr (maximum attainable concentration), Dermal rat LD50 >5000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Tetrapotassium pyrophosphate: 96 hr LC50 Oncorhynchus mykiss > 100 mg/L, 8 he EC50 daphnia magna >100 mg/L, 720 hr EC50 Desmodesmus subspicatus >100 mg/L

Sodium Nitrite: 96 hr LD50 Oncorhynchus mykiss 0.54 mg/L, 48 hr EC50 daphnia magna 15.4 mg/L, 72 hr EC50 Desmodesmus subspicatus >100 mg/L
Sodium Molybdate: 96 hr LC50 Pimephales promelas 609.1 mg/L, 48 hr LC50 daphnia magna 2729.4 mg/L
Potassium Nitrate: 96 hr LC50 Poecilia reticulata 1378 mg/L, 48 he EC50 daphnia magna 490 mg/L

Persistence and degradability: Biodegradation is not applicable to inorganic substances such as tetrapotassium pyrophosphate, sodium nitrite, sodium molybdate and potassium nitrate.
Bioaccumulative potential: No data available.
Mobility in soil: No data available.
Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			RQ 500 lbs
TDG		Not Regulated			
IMDG		Not Regulated			

Note: If a package contains 500 lbs or more of tablets, the shipping description is UN3077, Environmentally Hazardous Substance, solid, n.o.s. (Sodium Nitrite), 9, III RQ

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None known

15. REGULATORY INFORMATION

Safety, health, and environmental regulations specific for the product in question.

CERCLA 103 Reportable Quantity: The tablets have a reportable quantity of 500 lbs based on 20% sodium nitrite with an RQ of 100 lbs. Many states have more stringent reporting requirements. Report releases as required by all federal, state and local authorities.

SARA TITLE III:
Hazard Category for Section 311/312: Acute health, chronic health
SARA 313: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

Sodium nitrite	7632-0-0	15-30%
Potassium nitrate (nitrate compound)	7757-79-1	5-15%

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

California Proposition 65: This product is not known to contain regulated chemicals.

CANADA:
Canadian CEPA Status: All of the components are on the Canadian DSL.
Canadian WHMIS Classification: Class C, Class D-1-A, Class D-2-B

16. OTHER INFORMATION

NFPA Rating:	Health = 2	Flammability = 0	Instability = 1
HMIS Rating:	Health = 2	Flammability = 0	Physical Hazard =1

SDS Revision History: Converted to GHS format – All sections revised
Date of preparation: December 19, 2014
Date of last revision: March 7, 2012

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Revision History

Product	**Type**	**Chemical Name**	
W1004	Coolant Filter	Phosphate-nitrite-molybdate corrosion inhibitor	
Revision	**Description**	**Effective Date**	**Signed**
A	Revised phone number.	2/3/14	Carmen Reich
B	Converted to new SDS format. Revised Section 3 for chemicals to add up to 100%.	12/19/14	Carmen Reich