

**Material Safety Data Sheet**  
**Coolant Filters / Conditioners**

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product Number:** NAPA 4088; WIX 24088; CARQUEST 89088

**Trade Name and Synonyms:** NAPA Coolant Filters / Conditioners  
Wix Coolant Filters / Conditioners  
CARQUEST Coolant Filters / Conditioners

**Chemical Name and Synonyms:** Nitrite-nitrate-borate corrosion inhibitor.

**Chemical Family:** Industrial water treatment

**Product Use:** Vehicle coolant treatment

**MSDS Date of Preparation:** March 31, 2011

**Company Identification**

Manufacturer

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

Telephone Numbers

Product Information: (704) 869-3700 x2769  
Emergency Phone: (800) 424-9300 Chemtrec

**SECTION 2: HAZARDS IDENTIFICATION**

**Physical Appearance:** Yellow solid tablet inside a coolant filter

**EMERGENCY OVERVIEW**

**Hazards Identification:** The tablet is enclosed in a coolant filter so exposure to the hazardous chemicals will not occur during normal handling. Direct contact with tablet may cause eye and skin irritation or burns. Repeated skin contact may cause allergic skin reaction. Inhalation of dust from tablet may cause irritation of the nose, throat and upper respiratory tract. Ingestion of tablet may be fatal.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS Number	Amount
Sodium Nitrite	7632-00-0	41-50%
2-Mercaptobenzothiazole	149-30-4	11-15%
Sodium Nitrate	7631-99-4	6-10%
Disodium Metasilicate	6834-92-0	Proprietary
Boric Acid, disodium salt, pentahydrate	12179-04-3	Proprietary
Sodium Metaborate Dihydrate	16800-11-6	Proprietary

**SECTION 4: FIRST AID MEASURES**

**Eye Contact:** Flush eyes thoroughly with running water for at least 15 minutes. Get immediate medical attention.

**Skin Contact:** Flush with water for at least 15 minutes then wash with mild soap and water. Seek medical attention if irritation or other symptoms develop.

**Inhaled:** If dust from tablet is inhaled, remove to fresh air. Seek immediate medical attention.

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**Swallowed:** If swallowed, do not induce vomiting. Rinse mouth with water and drink 1-2 glasses of water. Seek immediate medical attention.

### SECTION 5: FIRE FIGHTING MEASURES

**Fire and Explosion Hazards:** The tablet is not flammable or combustible.

**Extinguishing Media:** Use any media that is appropriate for the surrounding fire.

**Special Fire Fighting Procedures:** 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.

**Hazardous Combustion Products:** Carbon oxides, oxides of nitrogen, boron oxides, oxides of sulfur and sodium oxides.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Use appropriate protective clothing and equipment during clean-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.

### SECTION 7: HANDLING AND STORAGE

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

**Storage:** Store in a cool, dry, well-ventilated area away from combustible materials, acids and other incompatible materials.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Exposure Limits
Sodium nitrite	None Established
2-Mercaptobenzothiazole	5 mg/m <sup>3</sup> TWA skin AIHA WEEL
Sodium nitrate	None Established
Disodium Metasilicate	None Established
Boric Acid, disodium salt, pentahydrate	2 mg/m <sup>3</sup> TWA, 6 mg/m <sup>3</sup> STEL ACGIH TLV (inhalable)
Sodium Metaborate Dihydrate	2 mg/m <sup>3</sup> TWA, 6 mg/m <sup>3</sup> STEL ACGIH TLV (inhalable)

**Ventilation:** No special ventilation required for handling undamaged filters.

**Respiratory Protection:** 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, ANSI Z88.2 and good Industrial Hygiene practice.

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**Skin Protection:** Wear rubber or other impervious gloves when handling damaged filters or tablets.

**Eye Protection:** Safety glasses or goggles required for handling damaged filters or tablets.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

The following applied to the internal tablet

**Appearance and Odor:** Yellow tablet with a slight odor inside a coolant filter

**Density:** 55 lb/cu.

**Water Solubility:** Very slightly soluble

**Vapor Pressure:** Not applicable

**Vapor Density:** Not applicable

**pH:** ~10.5 (1% solution)

**Boiling Point:** Not applicable

**Melting Point:** Not determined

**Flash Point:** >200F (93C)

**Autoignition Point:** Not determined

### SECTION 10: STABILITY AND REACTIVITY

**Stability:** This product is stable.

**Incompatibility/Conditions to Avoid:** Avoid extreme heat. Incompatible with oxidizing materials, reducing agents, organic materials, acids and moisture.

**Hazardous Decomposition Products:** Thermal decomposition will generate carbon oxides, oxides of nitrogen, boron oxides, oxides of sulfur and sodium oxides.

**Hazardous Polymerization:** Will not occur

### SECTION 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:** May cause severe irritation or burns.

**Skin:** May cause irritation. Sodium nitrite and borates may be harmful if absorbed through the skin. Repeated skin contact may cause allergic skin reaction.

**Inhalation:** Dust may cause irritation of the mucous membranes and upper respiratory tract. Absorption may cause effects similar to those described under ingestion.

**Ingestion:** May be fatal if swallowed. May cause burns to the mouth and throat, dizziness, nausea, vomiting, low blood pressure, cyanosis, rapid heart beat, convulsions and collapse.

**Chronic/Carcinogenicity:** Prolonged or repeated exposure may cause nervous system effects, liver damage, kidney damage and effects on the blood. Borates cause adverse reproductive effects in laboratory animals.. None of the components of this product present at 0.1% or greater are listed as carcinogens by ACGIH, IARC, NTP or OSHA.

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## SECTION 12: ECOLOGICAL INFORMATION

No ecotoxicity data is available for the product. 2-Mercaptobenzothiazole and sodium nitrite are considered very toxic to the aquatic environment. Avoid release to the environment.

## **SECTION 13: DISPOSAL INFORMATION**

Dispose in accordance with all local and national regulations.

## **SECTION 14: TRANSPORT INFORMATION**

US DOT Shipping Description: Not regulated

IMDG Code (Ocean): Not regulated

ICAO/IATA (AIR): Not regulated

Note: If a package contains 200 lbs or more of tablets, the shipping description is UN3077, Environmentally Hazardous Substance, solid, n.o.s. (Sodium Nitrite), 9, III RQ

## **SECTION 15: REGULATORY INFORMATION**

**CERCLA 103 Reportable Quantity:** The tablets have a reportable quantity of 200 lbs based on 60% 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

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

Sodium nitrite	41-50%
Sodium nitrate (nitrate compound)	6-10%
2-Mercaptobenzothiazole	11-15%

**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.

## SECTION 16: OTHER INFORMATION

**NFPA Hazard Rating:** Health: 2      Fire: 0      Instability: 0

**HMIS Hazard Rating:** Health: 2      Fire: 0      Physical Hazard: 0

The information is believed to be accurate and represents the best information currently available to us. WE MAKE NO WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO SUCH INFORMATION. We assumes no liability

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resulting from its use. Users should conduct their own investigations to determine the suitability of the information for their own particular application and purpose.