

Safety Data Sheet
W1005W
Coolant Filters / Conditioners

Section 1 PRODUCT AND COMPANY IDENTIFICATION

Product Number: WIX 24089

Trade Name and Synonyms: Wix Spin-on Coolant Filters / Conditioners

Chemical Name and Synonyms: Nitrite-borate corrosion inhibitor

Chemical Family: Industrial water treatment

Product Use: Vehicle coolant treatment

Restrictions on use: Use only as directed

SDS Date of Preparation: August 16, 2016

Details of the supplier of the safety data sheet:

MANN+HUMMEL Filtration Technology US LLC

1 Wix Way

Gastonia, NC 28054

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) Skin Corrosion Category 1 Eye Damage Category 1 Toxic to Reproduction Category 2 Specific Target Organ Toxicity Single Exposure Category 3 (Respiratory Irritation)

Labeling:



Danger!

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Hazard statement(s)

May intensify fire: oxidizer.
Toxic if swallowed.
Harmful if inhaled.
Causes severe skin burns and eye damage.
May cause respiratory irritation.
Suspected of damaging fertility or the unborn child.

Precautionary statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat.
Keep away from clothing and other combustible materials.
Take any precaution to avoid mixing with combustible materials.
Do not breathe dusts or mists.
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, protective clothing, eye protection and face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
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 exposed or concerned: Get medical attention.
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
Sodium Nitrite	7632-00-0	30-60%
Sodium Silicate	6834-92-0	15-30%
Sodium Tetraborate	1303-96-4	5-10%

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

4. FIRST-AID MEASURES

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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. Immediately wash skin thoroughly with soap and water. Get immediate medical attention. Launder clothing before re-use. (Discard contaminated shoes)

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 immediate medical attention.

Ingestion: 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 filter 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 exposure to pellets or dust for all routes of exposure, 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 sodium nitrite which is an oxidizer and can enhance the burning of other materials. Combustion may produce oxides of carbon, nitrogen, boron 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. 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.

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

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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 tablets are released, collect in a manner that minimizes the generation of airborne dust. Do not use combustible absorbents or towels. 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 and skin. Do not breathe dust. Wash thoroughly after handling.

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:

Sodium Nitrite	None Established
Sodium Silicate	None Established
Sodium Tetraborate (as inorganic borates)	2 mg/m ³ TWA ACGIH TLV (Inhalable) 6 mg/m ³ STEL ACGIH TLV (Inhalable)

Appropriate engineering controls: General ventilation is adequate for normal use.

Personal Protective Equipment

Respiratory protection: None required under normal conditions of use. In situations where contact with the pellets is likely and the exposure limits are exceeded, a NIOSH approved particulate respirator 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 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	

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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, boron 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 tablets.

Eye contact: None expected under normal use conditions. May cause severe irritation or burns with redness, tearing and pain. Permanent damage can occur.

Skin contact: May cause irritation. Sodium nitrite may be absorbed through the skin causing effects similar to those described under inhalation and ingestion.

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 and vomiting. Overexposure to sodium nitrite may cause nitrite poisoning with symptoms including nausea, dizziness, vertigo, vomiting, collapse, cyanosis, abdominal pain, methemoglobinemia, rapid heartbeat, irregular breathing, coma, convulsions, circulatory collapse and death.

Chronic effects: None expected under normal use conditions. Prolonged or repeated exposure may cause nervous system effects, liver damage, kidney damage and effects on the blood.

Reproductive Toxicity: Sodium borate has been shown to cause adverse reproductive effects in laboratory animals.

Carcinogenicity: 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: 131.9 mg/kg, Dermal >2000 mg/kg, Inhalation: 3.29 mg/L
Sodium Nitrite: Oral rat LD50 85 mg/kg, Inhalation rat LC50 5.5 mg/L/4 hr.

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Sodium Silicate: Oral rat LD50 600 mg/kg, Inhalation rat LC50 >2.06 mg/L/4 hr, Dermal rat LD50 >5000 mg/kg

Sodium Tetraborate: Oral rat LD50 3450 mg/kg, Inhalation rat LC50 >2.03 mg/L/4 hr (no deaths occurred), Dermal rabbit LD50 >2000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

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 Silicate: 96 hr LC50 Danio rerio 210 mg/L, 48 hr EC50 daphnia magna 1700 mg/L, 72 hr EC50 Desmodesmus subspicatus 207 mg/L

Sodium Tetraborate: 96 hr LC50 Limanda 74 mg/L, 72 hr EC50 Pseudokirchnerella subcapitata 40.2 mg/L

Persistence and degradability: Biodegradation is not applicable to inorganic substances such as, sodium nitrite, sodium silicate and sodium tetraborate.

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	UN3085	Oxidizing Solid, Corrosive, n.o.s (sodium nitrite, sodium silicate), LTD QTY	5.1 (8)	PGIII	RQ 167 lbs
TDG	UN3085	Oxidizing Solid, Corrosive, n.o.s (sodium nitrite, sodium silicate), LTD QTY	5.1 (8)	PGIII	
IMDG	UN3085	Oxidizing Solid, Corrosive, n.o.s (sodium nitrite, sodium silicate), LTD QTY	5.1 (8)	PGIII	

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.

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CERCLA 103 Reportable Quantity: The tablets have a reportable quantity of 167 lbs based on 40% 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	30-60%
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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: Changed manufacturer name from “Wix Filtration Products Division, Affinia Group” to “MANN+HUMMEL Filtration Technology US LLC”. Changed address from PO Box 1967 Gastonia, NC 28053 to 1 Wix Way Gastonia, NC 28054

Date of preparation: August 16, 2016

Date of last revision: February 9, 2015

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Revision History

Product	Type	Chemical Name	
W1005	Coolant Filter	Nitrite-borate 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
C	Section 14. Corrected transport classification, Section 15: Corrected RQ amount	2/9/15	Angela Rath
D	Changed manufacturer name from "Wix Filtration Products Division, Affinia Group" to "MANN+HUMMEL Filtration Technology US LLC". Changed address from PO Box 1967 Gastonia, NC 28053 to 1 Wix Way Gastonia, NC 28054	8/16/16	Ethan Voss