Safety Data Sheet
W1001W
Additive

Section 1 PRODUCT AND COMPANY IDENTIFICATION

Product Number: WIX 24055, 24056, 24057, 24058

Trade Name and Synonyms: Wix Cool Coolant Additive

Chemical Name and Synonyms: Nitrite-nitrate-borate, sodium hydroxide corrosion inhibitor.
Chemical Family: Industrial water treatment

Product Use: Vehicle coolant treatment
Restrictions on use: Use only as directed

SDS Date of Preparation: June 15, 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

Section 2. HAZARD(S) IDENTIFICATION

Classification:

Physical	Health
Not hazardous	Acute Toxicity Category 4 (Oral) Skin Irritation Category 2 Skin Sensitization Category 1 Eye Irritation Category 2A Toxic to Reproduction Category 2

Labeling:

Warning!

Hazard statement(s)

Harmful if swallowed.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye 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.
Avoid breathing mist, vapors or spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the

workplace.
Wear protective gloves and eye protection.
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
Rinse mouth.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical attention.
IF exposed or concerned: Get medical attention.
Store locked up.
Dispose of contents and container in accordance with local and national regulations.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Disodium Tetraborate, Anhydrous	1330-43-4	<5%
Sodium Nitrite	Z632-00-0	<5%
Sodium Nitrate	7631-99-4	<5%
2-Mercaptobenzothiazole	149-30-4	<5%
Sodium Metasilicate	6834-92-0	<2%
Sodium Hydroxide	1310-73-2	<1%

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

Section 4. FIRST-AID MEASURES

Eye: Flush eyes with large quantities of water for several minutes, holding the eyelids apart. Get medical attention.
Skin contact: Flush with water for several minutes then wash with mild soap and water. Seek medical attention if irritation persists.
Inhalation: Remove from exposure. If irritation develops, get medical attention.
Ingestion: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Get medical attention.
Most important symptoms/effects, acute and delayed: Eye or skin contact may cause moderate to severe irritation. May cause skin sensitization. Inhalation of mists may cause mucous membrane and respiratory tract irritation. Swallowing may cause irritation to the mouth, throat and digestive tract. May cause reproductive or developmental effects based on animal data.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is not required.

Section 5. FIRE-FIGHTING MEASURES

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

Specific hazards arising from the chemical: This product contains approximately 80% water and is not flammable or combustible. Dried product (after the water has evaporated) is classified as an oxidizer. Contact of dried residue with flammable or combustible material including clothing may cause fire. Dust clouds from dried product may be explosive. Explosion is possible if residue is heated above 1000°F or when mixed with cyanides. Dried residue will ignite with friction when contaminated with organic materials (grass, sawdust, soils, etc.). Combustion may produce oxides of carbon, nitrogen, boron, sulfur 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.

Section 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: Absorb spills with an inert absorbent and place in a container for disposal. Do NOT use sawdust, rags or any other combustible material. Combustible absorbents may catch fire as they dry in contact with this product. Contain large spills with sand or earth. Pump liquid into holding tanks. Collect residue with an inert absorbent and place into a container for disposal.

Section 7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes, skin or clothing. Avoid generating and breathing mists. Use with adequate ventilation. Keep product away from heat and all flammable or combustible materials including paper, solvents, fuels, wooden floors and clothing. Wash thoroughly after handling. Remove and launder contaminated clothing before reuse. DO NOT allow product to dry on clothing.

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

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines:

Disodium Tetraborate, Anhydrous (as borates)	2 mg/m3 TWA, 6 mg/m3 STEL ACGIH TLV (inhalable)
Sodium Nitrite	None Established
Sodium Nitrate	None Established
2 Mercaptobenothiazole	5 mg/m3 TWA skin AIHA WEEL
Sodium Metasilicate	None Established
Sodium Hydroxide	2 mg/m3 TWA OSHA PEL

	2 mg/m3 Ceiling ACGIH TLV

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to maintain exposure concentrations below the occupational exposure limits.

Personal Protective Equipment
Respiratory protection: For operations where exposure limits are exceeded, 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: Wear rubber or other impervious gloves to avoid skin contact.
Eye protection: Safety goggles recommended if splashing is possible.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Red-colored liquid
Odor: Mild odor

Odor threshold: Not available	**pH:** 11.3
Melting point/freezing point: Not available	**Boiling point/Range:** 216°F (102°C)
Flash point: Not flammable	**Evaporation rate:** Not applicable
Flammability (solid, gas): Not applicable	
Flammable limits: LEL: Not applicable	**UEL:** Not applicable
Vapor pressure: Same as Water	**Vapor density:** Same as water
Relative density: 1.17	**Solubility(ies):** Soluble in water
Partition coefficient: n-ctanol/water: Not applicable	**Auto-ignition temperature:** Not applicable
Decomposition temperature: Not available	**Viscosity:** Not applicable

Section 10. STABILITY AND REACTIVITY

Reactivity: Not expected to react.
Chemical stability: Stable.
Possibility of hazardous reactions: None expected under normal use conditions.
Conditions to avoid: Avoid extreme heat. Prevent contact with all flammable or combustible materials including paper, solvents, fuels, wooden floors and clothing.
Incompatible materials: Avoid strong acids, reducing agents, ammonium compounds and cyanides.
Hazardous decomposition products: Thermal decomposition will generate oxides of carbon, nitrogen, boron, sulfur and sodium.

Section 11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eye: May cause severe irritation or burns.
Skin: May cause irritation. Sodium nitrite and sodium borate may be harmful if absorbed through the skin. May cause an allergic skin reaction.
Inhalation: Mists may cause irritation of the mucous membranes and upper respiratory tract. Absorption may cause effects similar to those described under ingestion.

Ingestion: Harmful if swallowed. May cause irritation 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: Borates have been shown to cause reproductive effects in laboratory animals. The relevance to humans is unknown.

Carcinogenicity: None of the components of this product present at 0.1% or greater are listed as carcinogens by IARC, NTP or OSHA.

Acute Toxicity Values:
Acute Toxicity Estimate for the Product: Oral: 1408 mg/kg, dermal >2000 mg/kg
Disodium Tetraborate: Oral rat LD50 3450 mg/kg, Inhalation rat LC50 >2.03 mg/L/4 hr (no deaths occurred),
Sodium Nitrite: Oral rat LD50 85 mg/kg
Sodium Nitrate: Oral rat LD50 3430 mg/kg, Dermal rat LD50 >5000 mg/kg
2-Mercaptobenzothiazole: Oral rat LD50 3800 mg/kg, Dermal rabbit LD50 >7940 mg/kg
Sodium Metasilicate: Oral rat LD50 1890 mg/kg, Inhalation rat LC50 >2.06 mg/L/4 hr (no deaths occurred),
Sodium Hydroxide: Oral rat LD50 140 mg/kg, Dermal rabbit LD50 1350 mg/kg

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:
Sodium Borate: 48 hr LC50 1800 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 Nitrate: 96 hr LC50 Lepomis macrochirus 12,000 mg/kg, 24 he EC50 daphnia magna 8609 mg/kg,
2-Mercaptobenzothiazole: 96 hr LC50 Oncorhynchus mykiss 0.73 mg/L, 48 hr EC50 daphnia magna 0.741 mg/L, 72 hr EC50 Pseudokirchnerella subcapitata 0.5 mg/L
Sodium Hydroxide: 48 hr EC50 Ceriodaphnia sp. 40.4 mg/L,

Persistence and degradability: Biodegradation is not applicable to inorganic substances.
Bioaccumulative potential: No data available.
Mobility in soil: No data available.
Other adverse effects: None known.

Section 13. DISPOSAL CONSIDERATIONS

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

Section 14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT (In		Not Regulated			RQ 2000 lbs

containers <200 lbs)					
DOT (In containers >200 lbs)	UN3082	Environmentally Hazardous Substance, Liquid, n.o.s. (Sodium Nitrite)	9	PGIII	RQ 2000 lbs
TDG	UN3082	Environmentally Hazardous Substance, Liquid, n.o.s. (Sodium Nitrite)	9	PGIII	Marine Pollutant
IMDG	UN3082	Environmentally Hazardous Substance, liquid, n.o.s. (2-Mercaptobenzothiazole)	9	PGIII	Marine Pollutant

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

Section 15. REGULATORY INFORMATION

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

CERCLA 103 Reportable Quantity: This product has a reportable quantity of 2000 lbs based on 5% 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
SARA 313: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

Sodium nitrite	7632-0-0	<5%
2 Sodium nitrate (nitrate compound)	7631-99-4	<5%
2 Mercaptobenothiazole	149-30-4	<5%

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 Rating: Health = 2 Flammability = 0 Instability = 0
HMIS Rating: Health = 2* Flammability = 0 Physical Hazard =0
*Chronic Health Hazard

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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: October 2, 2015

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Revision History

Product	**Type**	**Chemical Name**	
W1001	Coolant Filter	NaOH corrosion inhibitor	
Revision	**Description**	**Effective**	**Signed**

		Date	
A	Revised substance classification to be an IMDG marine pollutant with updated information. Telephone number has been updated.	1/8/2014	Carmen Reich
B	Converted to GHS format	4/30/15	Angela Rath
C	Section 2 Classification, Labeling Elements; Section 3 Composition; Section 4 Most important symptoms/effects, acute and delayed; Section 8 Exposure guidelines; Section 11 Eyes, Acute Toxicity Values, Section 14 DOT; Section 16 HMIS Rating	10/2/15	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	6/15/2016	Ethan Voss