

**Safety Data Sheet
W1002W
ES Coolant Additive**

Section 1 PRODUCT AND COMPANY IDENTIFICATION

Product Number: WIX 24060

Trade Name and Synonyms: Wix Cool Coolant Additive

Chemical Name and Synonyms: Nitrite 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	Skin Irritation Category 2 Eye Damage Category 1 Skin Sensitization Category 1 Specific Target Organ Toxicity Single Exposure Category 2 (Blood Forming Organs) Specific Target Organ Toxicity Single Exposure Category 3 (Respiratory Irritation)

Labeling:



Warning!

Hazard statement(s)

Causes skin irritation.
May cause an allergic skin reaction
Causes serious eye damage.
May cause respiratory irritation.
May cause damage to blood forming organs

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Precautionary statement(s)

Do not breathe mist or spray
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the

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through prolonged or repeated exposure by ingestion.

workplace.

Wear protective gloves and eye protection.

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 INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor if you feel unwell.

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: Call a POISON CENTER or doctor.

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
Potassium Nitrate	7757-79-1	1-5%
Sodium Nitrite	7632-00-0	1-5%
Dipotassium Adipate	19147-16-1	1-5%
Sodium Tolytriazole	64665-57-2	1-3%
Potassium Silicate	1312-76-1	0.1-0.8%
Sodium 2-mercaptobenzothiazole	2492-26-4	0.1-0.3%

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 20 minutes, holding the eyelids apart. Get immediate medical attention.

Skin contact: Remove contaminated clothing. Flush skin with water for several minutes, then wash with mild soap and water. Seek medical attention if irritation persists. Launder clothing before reuse.

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: Cause severe eye irritation or burns. Permanent damage may occur. Causes skin irritation. May cause allergic skin reaction. Inhalation of mists may cause mucous membrane and respiratory tract irritation. Swallowing may cause irritation to the mouth, throat and digestive tract. Prolonged overexposure may cause damage to the blood forming organs.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is required if eye contact occurs.

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Section 5. FIRE-FIGHTING MEASURES

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

Specific hazards arising from the chemical: This product 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. Combustion may produce oxides of carbon, nitrogen, sulfur, phosphorous 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: Prevent contact with eyes. Avoid contact with skin and 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:

Potassium Nitrate	None Established
Sodium Nitrite	None Established
Dipotassium Adipate	None Established
Sodium Tolytriazole	5 mg/m ³ TWA skin AIHA WEEL
Potassium Silicate	None Established
Sodium 2-mercaptobenzothiazole	None Established

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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 with dust/mist cartridges 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 impervious gloves to avoid skin contact.

Eye protection: Chemical safety goggles are recommended to prevent eye contact.

Other protection: Wear protective clothing as needed to prevent skin contact. An eye wash station should be in the immediate work area.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES
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Appearance (physical state, color, etc.): Blue liquid

Odor: Little or no odor

Odor threshold: Not available	pH: 10-11
Melting point/freezing point: Not available	Boiling point/Range: 212°F (100°C)
Flash point: Not flammable	Evaporation rate: Not applicable
Flammability (solid, gas): Not applicable	
Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: 760 mmHg @ 212°F (100°C)	Vapor density: Not available
Relative density: 1.13-1.15	Solubility(ies): Completely soluble in water
Partition coefficient: n-ctanol/water: Not applicable	Auto-ignition temperature: Not applicable
Decomposition temperature: Not available	Viscosity: Not applicable
Explosive Properties: Not explosive	Oxidizing Properties: The product was tested in accordance with UN Manual on Tests and Criteria and did not meet the criteria or an oxidizing liquid.

Section 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal use.

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, strong oxidizing agents, reducing agents, halogenated compounds, alcohols and aldehydes.

Hazardous decomposition products: Thermal decomposition will generate oxides of carbon oxides, nitrogen oxides, sulfur oxides, phosphorous oxides, sodium oxides and oxygen.

Section 11. TOXICOLOGICAL INFORMATION
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Potential Health Effects:

Eye: May cause severe irritation or burns. Permanent damage may occur.

Skin: Causes skin irritation. May cause redness, swelling and pain. May cause an allergic skin reaction.

Inhalation: Mists may cause irritation of the mucous membranes and upper respiratory tract.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of nitrates and nitrites have been shown to affect the oxygen transfer in the blood and blood system, causing methemoglobinemia. Effects include blue-black coloration of the lips, tongue, and the mucous membranes, with the skin becoming slate gray in color.

Chronic effects: Repeated or prolonged overexposure may cause anemia and kidney effects.

Reproductive Toxicity: None of the components cause reproductive or developmental effects.

Germ Cell Mutagenicity: None of the components are germ cell mutagens.

Carcinogenicity: None of the other components are listed as carcinogens by IARC, NTP or OSHA.

Acute Toxicity Values:

Acute Toxicity Estimate: Oral 6635

Potassium Nitrate: Oral rat LD50 >2000 mg/kg, Inhalation rat LC50 >0.527 mg/L/4 hr (maximum concentration achievable), Dermal rabbit LD50 >5000 mg/kg.

Sodium Nitrite: Oral rat LD50 85 mg/kg

Dipotassium Adipate: Oral rat LD50 5560 mg/kg, Inhalation rat LC0 >7.7 mg/L/4 hr, Dermal rabbit LD0 7940 mg/kg.

Sodium Tolytriazole: Oral rat LD50 735 mg/kg, Dermal rabbit LD50 >2000 mg/kg

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

Sodium 2-mercaptobenzothiazole: Oral rat LD50 2100 mg/kg, Dermal rabbit LD50 >7940 mg/kg

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Potassium Nitrate: 96 hr LC50 *Poecilia reticulata* 1378 mg/L, 48 hr EC50 *daphnia magna* 490 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

Dipotassium Adipate: 96 hr LC0 *Danio rerio* >1000 mg/L, 48 hr LC50 *daphnia magna* 46 mg/L, 72 hr EC50 *Pseudokirchnerella subcapitata* 59 mg/L

Sodium Tolytriazole: 96 hr LC50 *Danio rerio* 180 mg/L, 48 hr EC50 *Daphnia galeata* 15.8 mg/L, 72 hr EC50 *Skeletonema costatum* 53 mg/L

Potassium Silicate: 48 hr LC50 *Leuciscus idus* >146 mg/L, 24 hr EC50 *daphnia magna* >146 mg/L, 72 hr EC50 *Desmodesmus subspicatus* 207 mg/L,

Sodium 2-mercaptobenzothiazole: 96 hr EC50 *Oncorhynchus mykiss* 0.73 mg/L, 48 hr EC50 *daphnia magna* 0.71 mg/L, 72 hr EC50 *Pseudokirchnerella subcapitata* 0.5 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.

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Section 13. DISPOSAL CONSIDERATIONS
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Dispose in accordance with all local, state and federal regulations.

Section 14. TRANSPORT INFORMATION
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	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT (In containers <2000 lbs)		Not Regulated			
DOT (In containers >2000 lbs)	UN3082	Environmentally Hazardous Substance, Liquid, n.o.s. (Sodium Nitrite)	9	PGIII	RQ 2000 lbs
TDG		Not Regulated			
IMDG		Not Regulated			

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, Chronic Health, Reactive

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

Sodium nitrite	7632-0-0	1-5%
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Section 302 Extremely Hazardous Substances (TPQ): None

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

International Chemical Inventories:

Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.

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

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European Union: All the components in this product are listed on the EINECS inventory or exempt.

Japan: All of the components in this product are listed on the Japanese Existing and New Chemical Substances (ENCS) inventory or exempt.

New Zealand: All of the components in this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempt.

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

Section 16. OTHER INFORMATION

NFPA Rating: Health = 3 Flammability = 0 Instability = 0
HMIS Rating: Health = 3 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: June 15, 2016

Date of last revision: February 15, 2016

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Product	Type	Chemical Name	
W1002	Coolant Filter	Nitrite corrosion inhibitor	
Revision	Description	Effective Date	Signed
A	Telephone number was updated.	1/24/2014	Carmen Reich
B	Converted to GHS format	4/30/15	Angela Rath
C	Section 2 Classification, Labeling, Section 3 Composition, Section 4 Most important symptoms/effects, acute and delayed, Section 5 Specific hazards arising from the chemical, Section 7 Precautions for safe handling, Section 8 Exposure Limits, Skin protection, Section 9 Physical and Chemical Properties, Section 10 Incompatible materials, Section 11 Skin, Inhalation, Ingestion, Chronic Effects, Germ Cell Mutagenicity, Reproductive Toxicity, Carcinogenicity, Acute Toxicity Values, Section 12 Ecotoxicity, Section 14 RQ, Section 15 CERCLA 103 Reportable Quantity, SARA 313, International Chemical Inventories	2/15/16	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