Material Safety Data Sheet
WF1001C
Coolant Additives

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Numbers: CARQUEST 89055, 89056, 89057, 89058

Trade Name and Synonyms: CARQUEST Cooling Systems Treatment

Chemical Name and Synonyms: Nitrite-nitrate-borate, sodium hydroxide corrosion inhibitor.
Chemical Family: Industrial water treatment
Product Use: Vehicle coolant treatment
MSDS Date of Preparation: April 29, 2012

Company Identification

Manufacturer
CARQUEST Filters
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: Red colored liquid. Mild odor.

EMERGENCY OVERVIEW

Hazards Identification: May cause severe eye and skin irritation or burns. Repeated skin contact may cause allergic skin reaction. Inhalation of mists may cause irritation of the nose, throat and upper respiratory tract. Ingestion may be fatal.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Amount
Sodium Borate	1303-96-4	<10%
Sodium Nitrite	7632-00-0	<5%
Sodium Nitrate	7631-99-4	<5%
2-Mercaptobenzothiazole	149-30-4	<5%
Sodium Hydroxide	1310-73-2	<2%

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 develops.

Inhaled: If mists are inhaled, remove to fresh air. Seek immediate medical attention.

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: 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.).

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.

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. Absorb small spills with an inert (non-combustible) 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. Do not use combustible materials. Pump liquid into holding tanks. Collect residue with an inert absorbent as described above for small spills. Prevent release to the environment.

SECTION 7: HANDLING AND STORAGE

Avoid generating and breathing mists and avoid contact with eyes, skin or clothing. Use only 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.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Exposure Limits
Sodium borate	2 mg/m3 TWA, 6 mg/m3 STEL ACGIH TLV (inhalable)
Sodium nitrite	None Established
Sodium nitrate	None Established
2-Mercaptobenzothiazole	5 mg/m3 TWA skin AIHA WEEL
Sodium Hydroxide	2 mg/m3 TWA OSHA PEL, 2 mg/m3 Ceiling ACGIH TLV

Ventilation: Use with adequate general or local exhaust ventilation to maintain exposure concentrations below the exposure limits.

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.

Skin Protection: Wear rubber or other impervious gloves.

Eye Protection: Chemical safety goggles.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Red-colored liquid with a mild odor
Specific Gravity: 1.170
Water Solubility: Soluble
Vapor Pressure: Same as water
Vapor Density: Same as water
pH: 11.3
Boiling Point: 102°C (216°F)
Melting Point: Not determined
Flash Point: None
Autoignition Point: None

SECTION 10: STABILITY AND REACTIVITY

Stability: This product is stable.

Incompatibility/Conditions to Avoid: Avoid extreme heat. Prevent contact with all flammable or combustible materials including paper, solvents, fuels, wooden floors and clothing, strong acids, reducing agents, ammonium compounds, cyanides.

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:

Eye: May cause severe irritation or burns.

Skin: May cause irritation. Sodium nitrite and sodium borate may be harmful if absorbed through the skin. Repeated skin contact may cause 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: 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. Sodium borate causes 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.

SECTION 12: ECOLOGICAL INFORMATION

No ecotoxicity data is available for the product. Sodium nitrite and 2-mercaptobenzothiazole are considered 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 2000 lbs or more, the shipping description is UN3082, Environmentally Hazardous Substance, liquid, n.o.s. (Sodium Nitrite), 9, III RQ

SECTION 15: REGULATORY INFORMATION

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

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:
Sodium nitrite <5%
Sodium nitrate (nitrate compound) <5%
2-Mercaptobenzothiazole <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.

SECTION 16: OTHER INFORMATION

NFPA Hazard Rating: Health: 3 Fire: 0 Instability: 0

HMIS Hazard Rating: Health: 3 Fire: 0 Physical Hazard: 0

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