

Material Safety Data Sheet

Donaldson SCA+ Coolant Liquid

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Document No P477334 Rev 1

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SECTION 1 - Product Identification

Product Name SCA+ Coolant Additive(s), a cooling water corrosion treatment.

Company Name Donaldson Company, Inc.

Address: P.O. Box 1299, Minneapolis, MN 55440 USA

Phone: 1-800-374-1374 (N. America only)

Emergency. Phone 1-800-877-1940 (U.S. only)

Trade Name: Donaldson SCA+

Donaldson Part No. X007099 (Pint ,47L, 5 Units)

X007100 (2 Quarts/1,9L, 20 Units)

X007101 (5 Gallons/18,9L/200 Units)

X007102 (55 Gallon / 208,2L/2200 Units)

SECTION 2 - Composition

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

Hazardous Ingredients

CAS# Chemical Name

7758-09-1 Potassium Nitrite. Oxidizer; toxic (by ingestion); irritant; potential blood toxin.

1310-58-3 Potassium Hydroxide (caustic potash) Corrosive, toxic (by ingestion)

7757-79-1 Potassium Nitrate Oxidizer; potential blood toxin, reproductive toxin, and neurotoxin.

7631-95-0 Sodium Molybdate (Molybdic Acid, Disodium Salt)

Potential irritant (respiratory)

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

SECTION 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning:

May cause slight irritation to the skin. Severe irritant to the eyes.

Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard: Not applicable

Emergency Response Guide: Not applicable

Odor: Slight; Appearance: Colorless to Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water.

POTENTIAL HEALTH EFFECTS

Acute Skin Effects: Primary route of exposure; May cause slight irritation to the skin.

Acute Eye Effects: Severe irritant to the eyes.

Acute Respiratory Effects: Mists/aerosols may cause irritation to the upper respiratory tract.

Ingestion Effects: May cause gastrointestinal irritation.

Target Organs: Prolonged or repeated exposures may cause toxicity to the blood.

Medical Conditions Aggravated: Not known.

Symptoms of Exposure: Causes redness or itching of skin, irritation

and/or tearing of the eyes (direct contact)

SECTION 4 - First Aid Measures

Skin Contact:

Remove contaminated clothing. Wash exposed area with a large quantity of soap solution or water for 15 minutes.

Eye Contact:

Immediately flush eyes with water for 15 minutes. Immediately contact a physician for additional treatment.

Inhalation:

Remove victim from contaminated area to fresh air. Apply appropriate first aid treatment as necessary.

Ingestion:

DO NOT feed anything by mouth to an unconscious or convulsive victim. DO NOT induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

SECTION 5 - Fire Fighting Measures

Fire Fighting Instructions:

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

Extinguishing Media:

Dry chemical, carbon dioxide, foam or water

Hazardous Decomposition Products:

Thermal decomposition (destructive fires) yields elemental oxides.

Flashpoint

>200°F > 93°C P-M (CC)

SECTION 6 - Accidental Release Measures

Protection and Spill Containment: Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

Disposal Instructions: Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted waste treatment facility or discharged under a permit. Product as is - incinerate or land dispose in an approved landfill.

SECTION 7 - Handling and Storage

Handling: Contains an oxidizer. Avoid all contact with reducing agents, oils, greases and organics. Do not allow to dry.

Storage: Keep containers closed when not in use. Reasonable and safe chemical storage. Keep dry.

SECTION 8- Exposure Controls / Personal Protection

Chemical Name and Exposure Limits:

Potassium Nitrite

PEL (OSHA): Not determined

TLV (ACGIH): Not determined

Potassium Hydroxide (caustic potash)

PEL (OSHA): 2 MG/M3 (Ceiling)

TLV (ACGIH): 2 MG/M3 (Ceiling)

Potassium Nitrate

PEL (OSHA): Not determined

TLV (ACGIH): Not determined

Sodium Molybdate (Molybdic Acid, Disodium Salt)

PEL (OSHA): 5 MG/M3 (AS Mo)

TLV (ACGIH): 5 MG/M3 (AS Mo)

Engineering Controls: Adequate ventilation to maintain air contaminants below exposure limits.

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Personal Protective Equipment: Use protective equipment in accordance with 29CFR 1910 Subpart I

Respiratory Protection: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Use air purifying respirators within use limitations associated with the equipment or else use supplied air-respirators. If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.

Skin Protection: neoprene gloves--wash off after each use. Replace as necessary.

Eye Protection: splash-proof chemical goggles.

SECTION 9- Physical and Chemical Properties

Specific Grav. (70°F, 21°C) 1.152

Freeze Point (°F) 10

Freeze Point (°C) -12

Viscosity (cps 70°F, 21°C) 10

Vapor Pressure (mmHG) ~18.0

Vapor Density (air=1) <1.00

% Solubility (water) 100.0

Odor Slight

Appearance Colorless to Yellow

Physical State Liquid

Flash Point P-M(CC) >200°F >93°C

pH As IS. (approx.) 10.4

Evaporation Rate (Ether=1) <1.00

NA=not applicable ND =not determined.

SECTION 10- Stability and Reactivity

Stability: Stable under normal storage conditions.

Hazardous Polymerization: Will not occur.

Incompatibilities: May react with organics or reducing agents.

Decomposition Products: Thermal decomposition (destructive fires) yields elemental oxides.

Betz Dearborn Internal Pump out/Cleanout Categories: "B"

SECTION 11- Toxicological Information

Oral LD50 RAT: ~2,000 mg/kg (estimated value)

Dermal LD50 Rabbit: >2,000 mg/kg (estimated value)

SECTION 12- Ecological Information

Aquatic Toxicology: No data available.

Biodegradation: No data available.

SECTION 13- Disposal Considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is: not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

SECTION 14- Transport Information

DOT Hazard: Not applicable.

UN/NA Number: Not applicable

DOT Emergency Response Guide #: Not applicable

SECTION 15- Regulatory Information

TSCA: All components of this product are listed in the TSCA inventory.

CERCLA and/or SARA REPORTABLE QUANTITY (RQ):

5,387 gallons due to Potassium Hydroxide (caustic potash)

SARA Section 312 Hazard Class: Immediate (acute); Delayed (Chronic)

SARA Section 302 Chemicals: No regulated constituent present at OSHA thresholds

SARA Section 313 Chemicals:

CAS# Chemical Name Range

7757-79-1 Potassium Nitrate 2.0-5.0%

California Regulatory Information

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65) Chemicals Present: No regulated constituent present at OSHA thresholds.

Michigan Regulatory Information

No regulated constituent present at OSHA thresholds.

SECTION 16- Other Information

NFPA/HMIS Code Translation

Health 1 Slight Hazard

Fire 1 Slight Hazard

Reactivity 0 Minimal Hazard

Special None No special hazard

(1) Protective Equipment B Goggles, Gloves

(1) Refer to Section 8 of MSDS for additional protective equipment recommendations

Change Log MSDS Status: 7/9/2002 (Supersedes Service Tips Document 402 and msdca4.doc)