

Material Safety Data Sheet

Donaldson SCA Coolant Filters

Page 1 of 2
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SECTION 1 - Product Identification

Mfgr'd and Dist. By: Donaldson Company, Inc.
Address: P.O. Box 1299, Minneapolis, MN 55440
Reg. Phone: 1-800-374-1374
Emerg. Phone: 1-800-424-9300 (U.S. only)
Trade Name: Spin-on Coolant Filters w/SCA
Prod. Syn./Prod. Type: Diesel Engine Coolant Filter a closed cooling water corrosion treatment.
Donaldson Part No. P552055, P552096, P554019, P554071, P554072, P554073, P554074, P554075, P554422, P554860

SECTION 2 - Composition / Information on Ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNCIATION 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
7632-00-0	Sodium Nitrite Oxidizer; toxic (by ingestion); potential blood toxin
7775-19-1	Sodium Metaborate Octahydrate Potential irritant (eyes and respiratory)
149-30-4	2-Mercaptobenzothiazole Irritant; potential sensitizer
6834-92-0	Silicic Acid, Disodium Salt (Sodium Metasilicate) Corrosive (eyes and moist tissue)
12179-04-03	Boric Acid, Disodium Salt, Pentahydrate Irritant (abraded skin); slight irritant (respiratory)
7631-99-4	Sodium Nitrate Oxidizer; potential blood toxin

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

Danger:

May cause moderate irritation to the skin. Potential skin sensitizer. Severe irritant to the eyes. Dusts cause irritation to the upper respiratory tract.

DOT hazard: None

Emergency Response Guide None

Odor: Slight; Appearance: White to Yellow, Briquettes

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type). Proper fire-extinguishing media: Flood with water. Use of CO2 or foam MAY NOT be effective.

POTENTIAL HEALTH EFFECTS

Acute Skin Effects: May cause moderate irritation to the skin. Potential skin sensitizer.

Acute Eye Effects: Severe irritant to the eyes.

Acute Respiratory Effects: Primary route of exposure; dusts cause irritation to the upper respiratory tract.

Ingestion Effects: Toxic; may cause gastrointestinal irritation with possible nausea, vomiting, abdominal discomfort and diarrhea.

Target Organs: Prolonged or repeated exposures may cause CNS depression, primary irritant dermatitis, skin sensitization, and/or toxicity to the blood.

Medical Conditions Aggravated: Not known.

Symptoms of Exposure: Respiratory tract irritation, abdominal pain, nausea, vomiting, flushing of skin, dizziness, collapse, cyanosis, and/or hypotension.

SECTION 4 - First Aid Measures

Skin Contact:

Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.

Eye Contact:

Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

Inhalation:

If nasal, throat or lung irritation develops, remove to fresh air and get medical attention.

Ingestion:

Do not feed anything by mouth to an unconscious or convulsive victim.

Dilute contents of stomach. Induce vomiting by one of the standard methods. Immediately contact a physician.

Note to Physicians: No special instructions

SECTION 5 - Fire Fighting Measures

Fire Fighting Instructions:

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

Extinguishing Media:

Flood with water. Use of CO2 or foam MAY NOT be effective.

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 supplied is suitable for incineration or land disposal in an approved landfill.

SECTION 7 - Handling and Storage

Handling: Oxidizer. Avoid all contact with reducing agents, oils, greases, organics and acids.

Storage: Keep containers closed when not in use. Keep dry. Store away from acids.

SECTION 8 - Exposure Controls / Personal Protection

Chemical Name and Exposure Limits

Sodium Nitrite

PEL (OSHA): Not determined

TLV (ACGIH): Not determined

Sodium Metaborate Octahydrate

PEL (OSHA): Not determined

TLV (ACGIH): Not determined

Material Safety Data Sheet

Donaldson SCA Coolant Filters

2-Mercaptobenzothiazole

PEL (OSHA): Not determined

TLV (ACGIH): Not determined

Silicic Acid Disodium Salt (Sodium Metasilicate)

PEL (OSHA): Not determined

TLV (ACGIH): Not determined

Boric Acid, Disodium Salt, Pentahydrate

PEL (OSHA): Not determined

TLV (ACGIH): 1 MG/M3

Sodium Nitrate

PEL (OSHA): Not determined

TLV (ACGIH): Not determined

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

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

Density	55.0 lb/cu.
Freeze Point (F)	NA
Freeze Point (C)	NA
Viscosity (cps 70F, 21C)	NA
Vapor Pressure (mmHG)	<0.1
Vapor Density (air=1)	<1.00
% Solubility (water)	~10.0
Odor	Slight
Appearance	White to Yellow
Physical State	Briquettes
Flash Point P-M(CC)	>200°F >93°C
pH 1% Sol. (approx.)	~10.5
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: Reacts with amine containing products, acids, reducing agents and oxidizers

Incompatibilities: May react with organics or reducing agents.

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

BetzDearborn Internal Pumpout/Cleanout Categories: "B"

SECTION 11- Toxicological Information

Oral LD50 Rat: ~190 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, it is not a US RCRA hazardous waste.

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 None

UN/NA None

DOT Emergency Response Guide #: None

SECTION 15- Regulatory Information

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

CERCLA and/or SARA REPORTABLE QUANTITY (RQ):

224 lbs. due to Sodium Nitrite

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

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

SARA Section 313 Chemicals:

CAS#	Chemical Name	Range
7632-00-0	Sodium Nitrite	41.0-50.0%
149-30-4	2-Mercaptobenzothiazole	11.0-15.0%
7631-99-4	Sodium Nitrate	6.0-10.0%

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	2 Moderate Hazard
Fire	0 Minimal Hazard
Reactivity	0 Minimal Hazard
Special	OXY DOT or NFPA Oxidizer
(1) Protective Equipment	B Goggles, Gloves

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

Change Log MSDS Status: 11-27-01 (Supersedes Service Tip Document 403 and P473987)