

Material Safety Data Sheet

Donaldson Endurance™ Plus Coolant Filters

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SECTION 1 - Chemical Product and Company Identification

Mfg'd and Dist. By: Donaldson Company, Inc.
Address: P.O. Box 1299, Minneapolis, MN 55440
Information Telephone: 1-800-374-1374
Emergency Phone: 1-800-424-9300 (U.S. only)
Product Trade Name: Spin-on Coolant Filters w/SCA

DOT Hazard: Oxidizer
UN/NA Number: UN1479
DOT Emergency Response Guide:
#140

DOT Hazard Description:
Oxidizing Solid, N.O.S., 5.1, UN1479, PGI
(Sodium Nitrite, Sodium Nitrate)

Donaldson Part No. ECF4088

SECTION 2 - Hazardous Ingredients

Hazardous Ingredients

Material	TLV (units)	CAS No.
Silicic Acid, Disodium Salt (sodium metasilicate)	ND	6834-92-0
Boric Acid, Disodium Salt, Pentahydrate	1mg/m3	12179-04-3
Sodium Nitrite	ND	7632-00-0
Sodium Nitrate	ND	7631-99-4
Sodium Metaborate Octahydrate	ND	7775-19-1
2-Mercaptobenzothiazole	ND	149-30-4

SECTION 3 - Physical Data

Density: 55.000 lb/cu.
Freeze Point: NA
Viscosity (cps 70F,21C): NA
Vapor Pressure (mmHg): < 0.1
Vapor Density (air = 1): < 1.00
Solubility in Water: ~ 10.0%
pH (1.0% soln): ~10.5
Flash Point P-M(CC): >200F >93C
Evaporation Rate (ether =1): < 1.00
Physical State: Pellet
Odor: Slight
Appearance: White to Yellow

SECTION 4 - Fire and Explosion Hazard Data

Flashpoint Point (Test Method) : >200F >93C P-M (CC)
Extinguishing Media: Flood with water. Use of CO₂ or foam may not be effective.
Special Fire Fighting Procedures: Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type)
Miscellaneous:
Oxidizer
UN1479; Emergency Response Guide #140

SECTION 5 - Reactivity Data

Stability: Stable under normal storage conditions.
Incompatibility (materials to avoid): May react with organics or reducing agents.
Decomposition Products: Thermal decomposition (destructive fires) yields elemental oxides.
Hazardous Polymerization: Will not occur.

SECTION 6 - Health Hazard Data

Ingredients Listed as Carcinogenic in NTP, IARC, or OSHA (specify):
None

--Acute Effects of Overexposure--

Eye Contact: Severe irritant to the eyes. May cause tearing.

Skin Contact: May cause slight irritation to the skin. Potential skin sensitizer.

Inhalation: Primary route of exposure; Dusts cause irritation to the upper respiratory tract.

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

--Emergency And First Aid Procedures--

Eyes: Flush at once with plenty of cool water for 15 minutes. Contact a physician.

Skin: Remove any contaminated clothing. Flush affected area with plenty of water for 15 minutes. If irritation develops, consult a physician.

Inhalation: Move victim to fresh air. If symptoms persist, consult a physician.

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.

SECTION 7 - Spill or Leak Procedures

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. Spread sand/grit.

Waste Disposal Method: Water contaminated with this product may be sent to a sewer treatment facility, in accordance with federal, state and local guidelines. Products as is – incinerate or land dispose in approved landfill.

SECTION 8 - Special Protection Information

Ventilation Requirements: Adequate ventilation to maintain air contaminants below exposure limits.

--Recommended Personal Protective Equipment --

Respiratory: A respiratory protection program that meets OSHA's 29CFR 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.

Eyes: Chemical splash goggles

Gloves: Neoprene gloves – wash off after each use. Replace as necessary.

SECTION 9 - 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.

SECTION 10 - Toxicological Information

Oral LD50 Rat: ~260 mg/kg (estimated value)

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

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SECTION 11 - Regulatory Information

TSCA: All components of this product are listed in the TSCA inventory.
CERLA and/or SARA REPORTABLE QUANTITY (RQ): 224 pounds 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%
7631-99-4	Sodium Nitrate	6.0 – 10.0%
149-30-4	2-Mercaptobenzothiazole	11.0 – 15.0%

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 12 - NFPA / HMIS

Health	2	Moderate Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	OXY	DOT of NFPA Oxidizer
Protective Equipment ⁽¹⁾	B	Goggles, gloves

⁽¹⁾ refer to section 11 of MSDS for additional protective equipment recommendations.