

24

MATERIAL SAFETY DATA SHEET

Donaldson SCA Coolant Spin-on Filters

Document No P477335

Revision 3

7 October 2008

Part Number(s):

This Material Safety Data Sheet applies to the following Donaldson filter part numbers:

| | |
|---------|---------|
| P552055 | P554075 |
| P552096 | P554422 |
| P554019 | P554860 |
| P554071 | P179708 |
| P554072 | P566893 |
| P554073 | P566840 |
| P554074 | P566841 |

Product Name:

SCA Coolant Filter(s), a closed cooling water corrosion treatment.

Chemical Manufacturer:

Dober Group
Dober of Glenwood Div.
333 W. 195th Street
Glenwood, IL 60425
(800) 323-4983 - Toll Free U.S. & Canada
(630) 440-7300
<http://www.dober-group.com>

Chemical / Product Name:

TR84746

24 Hour Emergency Contact:

Chem-tel

(800) 255-3924 - Toll Free U.S. & Canada
(813) 248-0585

Additional Languages:

For MSDS sheets in additional languages, please contact the chemical manufacturer - Dober Group.

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Donaldson

Donaldson Company, Inc.
P.O. Box 1299
Minneapolis, MN 55440
www.donaldson.com

MSDS DATE: 09/26/08

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Trade Name : TR84746
Product Code : T84746
Material Uses : Corrosion inhibitor

Supplier/Manufacturer : Dober
11230 Katherine's Crossing
Woodridge, IL 60517

Emergency Phone : 800-255-3924 (Chem-Tel)
Information Phone : 630-410-7300

SECTION 2: HAZARDS IDENTIFICATION

Physical State and Appearance : Solid

Emergency Overview : DANGER! Corrosive to skin, eyes, and causes irritation to respiratory tract.

Routes of Entry : Skin, eye, ingestion and inhalation contact.

Potential Acute Health Effects

- Eyes** : Causes eye burns.
- Skin** : Causes skin burns.
- Ingestion** : Causes burns to the mouth, throat and digestive tract.
- Inhalation** : Causes respiratory tract irritation.

Potential Chronic Health On Humans : Carcinogenic effects: Not classified or listed by NTP, IARC, or OSHA.
Mutagenic effects: Not available.
Teratogenic effects: Not available.

Medical Conditions Generally Aggravated by Exposure : Prolonged or repeated exposure may produce severe irritation to eyes, skin, and respiratory tract.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Ingredient:</u> | <u>CAS No.</u> | <u>% by weight</u> |
|--|-----------------------|---------------------------|
| Sodium Nitrite | 7632-00-0 | 50-60 |
| Disodium trioxosilicate (sodium metasilicate) | 6834-92-0 | 20-30 |
| Tolyltriazole | 29385-43-1 | 10-15 |
| Boric Acid (Sodium tetraborate) | 12179-04-3 | 7-10 |

See Section 8 for Exposure Limits.
See Section 11 for Toxicological Data.

SECTION 4: FIRST AID MEASURES

Eye Contact : In case of contact immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses if worn. Get medical attention immediately.

Skin Contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical

attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Inhalation : If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Get medical attention.

Notes to Physician : Contact Poison Control.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability of the product : Not flammable

Products of Combustion : Oxides of carbon and nitrogen.

Extinguishing Media : In case of fire, smother with dry sand, or Class D fire extinguishing agents. Material may react violently with water to produce large amounts of heat.

Special Firefighting Procedures : Wear SCBA and protective clothing.

Unusual Fire and Explosion Hazards : Contact with some reactive metals may produce flammable hydrogen gas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions : Use appropriate personal protective equipment.

Environmental Precautions : Do not flush to sewer or allow to enter waterways.

Methods for Cleaning Up : Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust.

SECTION 7: HANDLING AND STORAGE

Handling and Storage : Keep container closed. Do not contact eyes or skin. Do not take internally.

Other Precautions : FOR INDUSTRIAL USE ONLY.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

| Ingredient Name | Exposure Limits |
|--------------------|--|
| Sodium Tetraborate | ACGIH TLV (United States, 1/2007). STEL: 6 mg/m ³ 15 minute(s). TWA: 2 mg/m ³ 8 hour(s). NIOSH REL (United States, 12/2001). TWA: 1 mg/m ³ 10 hour(s). OSHA PEL 1989 (United States, 3/1989). TWA: 10 mg/m ³ 8 hour(s). |

Engineering Controls : Keep airborne concentrations below personal exposure limits. Use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below recommended exposure limits.

Personal Protection

Eyes : Safety glasses with side shields or chemical splash goggles should be worn.

Skin : Protective apron or lab coat to prevent skin contact.

Respiratory : Wear NIOSH N95 half face piece particulate respirator if process controls are not adequate.

Hands : Chemical resistant, nitrile gloves.

Personal Protection in Case Of a Large Spill : Use appropriate personal protective equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance : Solid/Pellet
Color : White to yellow
Odor : Slight
Density : 55.000 lb/cu.
pH (dilute 1%) : 10.5
Vapor Pressure : < 0.10 @ 20°C (68°F)
(mmHg)
Vapor Density (Air = 1) : < 1.00
Evaporation Rate : < 0.10
Solubility : 10.0 %

SECTION 10: STABILITY AND REACTIVITY

Stability and reactivity : Stable.
Conditions of instability : None known.
Incompatibility with various Substances : Strong oxidizers, strong acids.
Hazardous Decomposition : Oxides of carbon, oxides of nitrogen, oxides of sulfur.
Products
Hazardous Polymerization : Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity Data

| <u>Ingredient Name</u> | <u>Test</u> | <u>Result</u> | <u>Route</u> | <u>Species</u> |
|------------------------|-------------|---------------|--------------|----------------|
| TR84746 | LD50 | 190 mg/kg | Oral | Rat |
| TR84746 | LD50 | 2000 mg/kg | Dermal | Rabbit |

Potential Chronic Effects On Humans : Carcinogenic effects: Not classified or listed by NTP, IARC, or OSHA.
Mutagenic effects: Not available.
Teratogenic effects: Not available.
Other Toxic Effects on Humans : Not available.

SECTION 12: ECOLOGICAL INFORMATION

Aquatic ecotoxicity

| <u>Product/ingredient name</u> | <u>Species</u> | <u>Exposure</u> | <u>Result</u> |
|--------------------------------|----------------|-----------------|----------------------------------|
| Sodium nitrite | Crustaceans | 48 hours | Acute EC50 20670 to 26610 ug/L |
| | Crustaceans | 48 hours | Acute LC50 7500 ug/L |
| | Crustaceans | 48 hours | Acute LC50 1100 ug/L |
| | Fish | 96 hours | Acute LC50 83 ug/L |
| | Fish | 96 hours | Acute LC50 48 ug/L |
| | Fish | 96 hours | Chronic NOEC 0.54 mg/L |
| Sodium Tetraborate | Daphnia | 48 hours | Acute LC50 141 to 159 mg/L |
| | Fish | 96 hours | Acute LC50 104000 ug/L |
| | Daphnia | 48 hours | Acute LC50 141000 to 159000 ug/L |

Other adverse effects : No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method : Comply with all federal, state, and local regulations. Consult state and local authorities for restrictions on disposal of chemical waste. If approved, may be diluted and drained to a municipal sewer or waste treatment plant. Rinse empty container thoroughly with water before discarding.

SECTION 14: TRANSPORT INFORMATION

| Regulatory Information | UN Number | Proper Shipping Name | Class | Packing Group | Additional Information |
|------------------------|-----------|---|-------|---------------|---|
| United States (DOT) | UN3262 | Corrosive Solid, Basic, Inorganic, N.O.S. | 8 | III | Contains: Disodium trioxosilicate, Sodium tetraborate |
| IATA | UN3262 | Corrosive Solid, Basic, Inorganic, N.O.S. | 8 | III | Contains: Disodium trioxosilicate, Sodium tetraborate |
| IMDG | UN3262 | Corrosive Solid, Basic, Inorganic, N.O.S. | 8 | III | Contains: Disodium trioxosilicate, Sodium tetraborate |

SECTION 15: REGULATORY INFORMATION**U.S. Federal Regulations**

: TSCA 5(a)2 final significant rules: Sodium nitrite

United States inventory (TSCA 8b): All components are listed or exempted.

TSCA 8(d) H and S data reporting: Sodium nitrite: 1991

TSCA 12(b) annual export notification: Sodium nitrite

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Sodium nitrite; Sodium Tetraborate; Disodium metasilicate; Sodium nitrate

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Sodium nitrite: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Sodium Tetraborate: Immediate (acute) health hazard; Disodium metasilicate: Immediate (acute) health hazard, Delayed (chronic) health hazard; Sodium nitrate: Fire hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: Sodium nitrite; Sodium hydroxide

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

**Form R - Reporting
requirements****Supplier notification**

| <u>Product name</u> | <u>CAS number</u> | <u>Concentration</u> |
|---------------------|-------------------|----------------------|
| Sodium nitrite | 7632-00-0 | 50 - 60 |
| Sodium nitrite | 7632-00-0 | 50 - 60 |

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State Regulations

: Connecticut Carcinogen Reporting: None of the components are listed.
Connecticut Hazardous Material Survey: None of the components are listed.
Florida substances: None of the components are listed.
Illinois Chemical Safety Act: None of the components are listed.
Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.
Louisiana Reporting: None of the components are listed.
Louisiana Spill: None of the components are listed.
Massachusetts Spill: None of the components are listed.
Massachusetts Substances: The following components are listed:
Sodium nitrite; Sodium Tetraborate; Sodium nitrate
Michigan Critical Material: None of the components are listed.
Minnesota Hazardous Substances: None of the components are listed.
New Jersey Hazardous Substances: The following components are listed: Sodium nitrite; Sodium nitrate
New Jersey Spill: None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.
New York Acutely Hazardous Substances: The following components are listed:
Sodium nitrite
New York Toxic Chemical Release Reporting: None of the components are listed.
Pennsylvania RTK Hazardous Substances: The following components are listed: Sodium nitrite; Sodium Tetraborate; Sodium nitrate
Rhode Island Hazardous Substances: None of the components are listed.

SECTION 16: OTHER INFORMATION

Label Requirements

: Corrosive to skin, eyes, and causes irritation to respiratory tract.

**Hazardous Material
Information System (U.S.A.)**

| | |
|----------------------------|----------|
| Health | 2 |
| Fire Hazard | 0 |
| Reactivity | 0 |
| Personal Protection | C |

Hazard Ratings

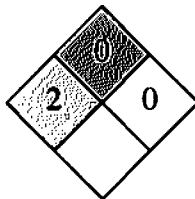
4 = Extreme
3 = Serious
2 = Moderate
1 = Slight
0 = Minimal

* See section 8 for more
detailed information
on personal protection

SECTION 16: OTHER INFORMATION

**National Fire Protection
Association (U.S.A.)**

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References

: Available on request.

Disclaimer

All information, recommendations, and suggestions appearing herein concerning this compound are based upon data obtained from the raw material manufacturers and/or recognized technical sources; however, Dober Chemical Corp. makes no warranty, representation, or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of the product. Since actual use by others is beyond our control, Dober Chemical makes no warranty, express or implied, as to the effects of such use, the results to be obtained or the safety and toxicity of the product. The data in this MSDS relate only to the specific product designated herein and do not relate to use in combination with any other material or in any process.