SECTION 1: Identification

1.1. Identification

Product name: DCA 4 Pellets/Powder/Paste
Product code: WF2070 - WF2076; WF2082 - WF2087; WF2015; WF2022; WF2104; WF2106; WF2100B; WF2100C; WF2108; WF2093; WF2126

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Cooling system additive, spin on coolant filters

1.3. Details of the supplier of the safety data sheet

Manufacturer: Cummins Filtration
1200 Fleetguard Road
Cookeville, TN 38506 - USA
T 1-800-22-FILTER (1-800-223-4583)

Distributor: Cummins Western Canada
Canadian Distributor
11751 181 St.
Edmonton, AB T5S 2K5 - Canada
T 1-780-455-2151

1.4. Emergency telephone number


SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS classification

Manufactured Article: GHS classification and labelling not applicable. This product is exempt from classification and labelling as per C.F.R. 1910.1200(b)(6)(v) and the Hazardous Products Act, Paragraph 12(i).

2.2. Label elements

Not applicable.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphosphoric acid, tetrapotassium salt</td>
<td>(CAS No.) 7320-34-5</td>
<td>28.0 - 34.3</td>
</tr>
<tr>
<td>Sodium nitrite</td>
<td>(CAS No.) 7632-00-0</td>
<td>14.9 - 18.2</td>
</tr>
<tr>
<td>Sodium molybdate</td>
<td>(CAS No.) 7631-95-0</td>
<td>5.6 - 6.9</td>
</tr>
<tr>
<td>1H-Benzotriazole</td>
<td>(CAS No.) 95-14-7</td>
<td>4.3 - 5.3</td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>(CAS No.) 6834-92-0</td>
<td>3.1 - 3.8</td>
</tr>
<tr>
<td>Sodium xylenesulfonate</td>
<td>(CAS No.) 1300-72-7</td>
<td>1.4 - 1.7</td>
</tr>
</tbody>
</table>

Comments: The concentrations listed represent actual ranges that result from batch variability.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Not applicable for product in finished form.
First-aid measures after skin contact: Not applicable for product in finished form. If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.
First-aid measures after eye contact: Not applicable for product in finished form. If irritation occurs, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
First-aid measures after ingestion: Not applicable for product in finished form.
4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation: Not a normal route of exposure.
Symptoms/effects after skin contact: No known adverse effects.
Symptoms/effects after eye contact: No known adverse effects.
Symptoms/effects after ingestion: Not a normal route of exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

Explosion hazard: Under fire conditions closed containers may rupture or explode.
Reactivity: No dangerous reactions known under normal conditions of use. Contact with combustible material may cause fire.

5.3. Advice for firefighters

Firefighting instructions: Cool closed containers exposed to fire with water spray.
Protection during firefighting: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment: Pick up large pieces, then place in a suitable container.
Methods for cleaning up: Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Avoid contact with internal filter pellets. Handle with care.
Hygiene measures: Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep out of the reach of children. Store in a dry place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Diphosphoric acid, tetrapotassium salt (7320-34-5)
Not applicable

Sodium nitrite (7632-00-0)
Not applicable
DCA 4 Pellets/Powder/Paste
Safety Data Sheet


<table>
<thead>
<tr>
<th>Sodium molybdate (7631-95-0)</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1H-Benzotriazole (95-14-7)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Sodium metasilicate (6834-92-0)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Sodium xylenesulfonate (1300-72-7)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Hand protection: None necessary under normal conditions of use.

Eye protection: None necessary under normal conditions of use.

Skin and body protection: None necessary under normal conditions of use.

Respiratory protection: None necessary under normal conditions of use.

Environmental exposure controls: Maintain levels below Community environmental protection thresholds.

Other information: Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid
Appearance: Pellets contained within filter
Colour: White (pellets/powder) blue (paste)
Odour: Little or no odour.
Odour threshold: No data available
pH: No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Relative evaporation rate (butylacetate=1): No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: No data available
Solubility: Water: completely soluble
Partition coefficient n-octanol/water: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive limits: No data available
Explosive properties: No data available
Oxidising properties: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use. Contact with combustible material may cause fire.
DCA 4 Pellets/Powder/Paste
Safety Data Sheet


10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
Sparks, heat, open flame and other sources of ignition. Combustible materials. Incompatible materials.

10.5. Incompatible materials

10.6. Hazardous decomposition products
May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

Likely routes of exposure : None.

11.1. Information on toxicological effects
Acute toxicity (oral) : Not applicable.
Acute toxicity (dermal) : Not applicable.
Acute toxicity (inhalation) : Not applicable.

Sodium nitrite (7632-00-0)
LD50 oral rat 85 mg/kg
LC50 inhalation rat 5.5 mg/l/4h

Sodium molybdate (7631-95-0)
LD50 oral rat 4000 mg/kg
LC50 inhalation rat > 2080 mg/m³ (Exposure time: 4 h)

1H-Benzotriazole (95-14-7)
LD50 oral rat 560 mg/kg
LD50 dermal rabbit > 10000 mg/kg
LC50 inhalation rat 1910 mg/m³ (Exposure time: 3 h)

Sodium metasilicate (6834-92-0)
LD50 oral rat 1153 mg/kg

Sodium xylenesulfonate (1300-72-7)
LD50 oral rat 1000 mg/kg
Skin corrosion/irritation : Not applicable.
Serious eye damage/irritation : Not applicable.
Respiratory or skin sensitisation : Not applicable.
Germ cell mutagenicity : Not applicable.
Carcinogenicity : Not applicable.
Reproductive toxicity : Not applicable.
STOT-single exposure : Not applicable.
STOT-repeated exposure : Not applicable.

Aspiration hazard : Not applicable.
Symptoms/effects after inhalation : Not a normal route of exposure.
Symptoms/effects after skin contact : No known adverse effects.
Symptoms/effects after eye contact : No known adverse effects.
Symptoms/effects after ingestion : Not a normal route of exposure.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general : May cause long-term adverse effects in the aquatic environment.
DCA 4 Pellets/Powder/Paste
Safety Data Sheet


### Diphosphoric acid, tetrapotassium salt (7320-34-5)

<table>
<thead>
<tr>
<th>LC50 value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 100 mg/l</td>
<td>Oncorhynchus mykiss</td>
<td>96 h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EC50 value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 100 mg/l</td>
<td>Species: water flea</td>
<td></td>
</tr>
</tbody>
</table>

### Sodium nitrite (7632-00-0)

<table>
<thead>
<tr>
<th>LC50 value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.19 mg/l</td>
<td>Oncorhynchus mykiss [flow-through]</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EC50 value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.092 - 0.13 mg/l</td>
<td>Species: Oncorhynchus mykiss [flow-through]</td>
<td></td>
</tr>
</tbody>
</table>

### 1H-Benzo triazole (95-14-7)

<table>
<thead>
<tr>
<th>LC50 value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>39 mg/l</td>
<td>Oncorhynchus mykiss</td>
<td>96 h</td>
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</table>

<table>
<thead>
<tr>
<th>EC50 value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>141.6 mg/l</td>
<td>Species: water flea</td>
<td></td>
</tr>
</tbody>
</table>

### Sodium metasilicate (6834-92-0)

<table>
<thead>
<tr>
<th>LC50 value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>210 mg/l</td>
<td>Brachydanio rerio [semi-static]</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LC50 value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>210 mg/l</td>
<td>Brachydanio rerio</td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

**DCA 4 Pellets/Powder/Paste**
Persistence and degradability: Not established.

#### 12.3. Bioaccumulative potential

**DCA 4 Pellets/Powder/Paste**
Bioaccumulative potential: Not established.

**Sodium nitrite (7632-00-0)**
Partition coefficient n-octanol/water: -3.7 (at 25 °C)

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information: No other effects known.

#### SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Product/Packaging disposal recommendations**

Empty containers or liners may retain some product residues. This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

### SECTION 14: Transport information

**Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)**

In accordance with DOT/TDG

Not regulated

### SECTION 15: Regulatory information

**15.1. Federal regulations**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

**15.2. International regulations**

No additional information available

**15.3. US State regulations**

No additional information available

#### SECTION 16: Other information

Revision date: 03/23/2018

Other information: None

Prepared by: Nexreg Compliance Inc.

www.Nexreg.com

SDS HazCom 2012 - WHMIS 2015 (NexReg)
DCA 4 Pellets/Powder/Paste
Safety Data Sheet


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