DCA-2 Liquid

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Issue date: 8/31/2017
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Version: 4.0

SECTION 1: Identification

1.1. Identification

Product form	:	Mixture
Trade name	:	DCA-2 Liquid
Product code	:	DCA30L, DCA30LX, DCA35L, DCA35LX, DCA40L, DCA40LX, DCA45L, DCA50L

1.2. Recommended use and restrictions on use

Recommended use	:	Liquid Supplemental Coolant Additive

1.3. Supplier

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

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

1.4. Emergency telephone number

Emergency number	:	Chemtrec 1-800-424-9300 (Within Continental U.S.) Chemtrec 703-527-3887 (Outside the U.S.).

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

Acute Tox. 4 (Oral)
Skin Irrit. 2
Eye Irrit. 2A
Skin Sens. 1
Repr. 1B

2.2. GHS Label elements, including precautionary statements

GHS labeling

Hazard pictograms (GHS) :

Signal word (GHS)	:	Danger
Hazard statements (GHS)	:	Harmful if swallowed Causes skin irritation May cause an allergic skin reaction Causes serious eye irritation May damage fertility or the unborn child
Precautionary statements (GHS)	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling.

Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center or doctor if you feel unwell.
Rinse mouth.
If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
If exposed or concerned: Get medical advice/attention.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

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

Name	Chemical name / Synonyms	Product identifier	%
Sodium nitrite	Sodium nitrite Diazotizing salts / Nitrous acid, sodium salt / Nitrous acid, sodium salt (1:1) / SODIUM NITRITE / sodium nitrite	CAS-No.: 7632-00-0	1 – 5
Disodium tetraborate	Disodium tetraborate Anhydrous borax / Boric acid (H2B4O7), disodium salt / Boric acid, disodium salt / Boron sodium oxide / Boron sodium oxide (B4Na2O7) / Sodium borate / Sodium tetraborate / Disodium tetraborate, anhydrous / Sodium tetraborate anhydrous / Disodium tetraborate anhydrous / SODIUM BORATE / Sodium borate anhydrous / Tetraborates, sodium salts, anhydrous / Tetraboron disodium heptaoxide / Sodium borate, anhydrous	CAS-No.: 1330-43-4	1 – 5
Sodium nitrate	Sodium nitrate Nitric acid sodium salt / Nitric acid, sodium salt / Sodium(I) nitrate (1:1) / Nitric acid sodium salt (1:1) / SODIUM NITRATE / sodium nitrate	CAS-No.: 7631-99-4	1 – 5

Name	Chemical name / Synonyms	Product identifier	%
Sodium metasilicate	Disodium metasilicate / Silicate, disodium / Silicic acid (H2SiO3), disodium salt / Sodium metasilicate, anhydrous / Silicic acid, disodium salt / Disodium metasilicate (Na2SiO3) / Disodium trioxosilicate / Silicic acid (H2SiO3), sodium salt (1:2) / SODIUM METASILICATE / Silicic acid, sodium salt (1:2) / Sodium silicate	CAS-No.: 6834-92-0	1 – <5
Sodium mercaptobenzothiazole	Sodium mercaptobenzothiazole 2(3H)-Benzothiazolethione, sodium salt / 2-Mercaptobenzothiazole, sodium salt / Sodium benzothiazol-2-yl sulphide / Sodium 2-mercaptobenzothiazole / Mercaptobenzothiazole sodium salt / 2(3H)-Benzothiazolethione, sodium salt (1:1) / sodium 2-mercaptobenzothiazole	CAS-No.: 2492-26-4	0.5 – 1.5

***Chemical name, CAS number and/or exact concentration have been withheld as a trade secret**

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Symptoms/effects after ingestion : Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause burns to mouth, throat and stomach. Overexposure to this material may result in methemoglobinemia.

Chronic symptoms : May affect kidneys. Anemia. May damage fertility or the unborn child.

4.3. Immediate medical attention and special treatment, if necessary

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

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Use chemical extinguishing agents with caution. Some chemical extinguishing agents may react with this material. Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Nitrogen oxides. Oxides of sodium. Oxygen. boron. Silicon oxides.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

5.3. Special protective equipment and precautions for fire-fighters

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.

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 : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Collect spillage. 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 : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Wear personal protective equipment. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Empty containers may contain residues which are hazardous. Keep away from incompatible materials.

Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Store tightly closed in a dry, cool and well-ventilated place. Keep away from incompatible materials. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DCA-2 Liquid

No additional information available

Sodium nitrite (7632-00-0)

No additional information available

Disodium tetraborate (1330-43-4)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	2 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)
ACGIH OEL STEL	6 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)
ACGIH chemical category	Not Classifiable as a Human Carcinogen

USA - NIOSH - Occupational Exposure Limits

NIOSH REL (TWA)	1 mg/m³

Sodium nitrate (7631-99-4)

No additional information available

Sodium metasilicate (6834-92-0)

No additional information available

Sodium mercaptobenzothiazole (2492-26-4)

USA - NIOSH - Occupational Exposure Limits

US-NIOSH chemical category	SK: DIR(COR)-SEN Aug 2014

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear suitable gloves resistant to chemical penetration

Eye protection:

Safety glasses or goggles are recommended when using product.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Color	:	Blue
Odor	:	Odourless
Odor threshold	:	No data available
pH	:	10.6 – 10.95
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability	:	Not flammable.
Vapor pressure	:	No data available
Relative vapor density at 20°C / 68 °F	:	No data available
Relative density	:	1.127 – 1.157
Solubility	:	No data available
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
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	Non oxidizing material.

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.

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

Heat. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents. Reducing agents. None known.

10.6. Hazardous decomposition products

May include, and are not limited to: Oxides of carbon. Nitrogen oxides. Oxides of sodium. Oxygen. Boron. Silicon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

DCA-2 Liquid	
ATE CA (oral)	1694.206 mg/kg body weight

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

Disodium tetraborate (1330-43-4)	
LD50 oral rat	2660 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 2 mg/m³ (Exposure time: 4 h)

Sodium nitrate (7631-99-4)	
LD50 oral rat	1267 mg/kg
LD50 dermal rat	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Sodium metasilicate (6834-92-0)	
LD50 oral rat	1153 mg/kg
LD50 dermal rat	> 5000 mg/kg body weight Animal: rat, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
LC50 inhalation rat	> 2.06 mg/l air Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)

Sodium mercaptobenzothiazole (2492-26-4)	
LD50 oral rat	1476 mg/kg
LD50 dermal rabbit	> 7940 mg/kg
LC50 inhalation rat	> 8.2 mg/l (Exposure time: 6 h)

Skin corrosion/irritation : Causes skin irritation.
pH: 10.6 – 10.95
Serious eye damage/irritation : Causes serious eye irritation.
pH: 10.6 – 10.95
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : May damage fertility or the unborn child.

Sodium metasilicate (6834-92-0)	
NOAEL (animal/female, F0/P)	> 159 mg/kg body weight Animal: rat, Animal sex: female

STOT-single exposure : Not classified

Sodium metasilicate (6834-92-0)	
STOT-single exposure	May cause respiratory irritation.

: Not classified

STOT-repeated exposure

Sodium nitrite (7632-00-0)	
NOAEL (subchronic,oral,animal/male,90 days)	220 mg/kg body weight Animal: mouse, Animal sex: male
NOAEL (subchronic,oral,animal/female,90 days)	165 mg/kg body weight Animal: mouse, Animal sex: female

Sodium nitrate (7631-99-4)	
NOAEL (oral,rat,90 days)	≥ 1500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Sodium metasilicate (6834-92-0)	
NOAEL (oral,rat,90 days)	227 – 237 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Aspiration hazard : Not classified

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Symptoms/effects after ingestion : Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause burns to mouth, throat and stomach. Overexposure to this material may result in methemoglobinemia.

Chronic symptoms : May affect kidneys. Anemia. May damage fertility or the unborn child.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Sodium nitrite (7632-00-0)	
LC50 - Fish [1]	0.19 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 - Crustacea [1]	15.4 mg/l Test organisms (species): Daphnia magna
LC50 - Fish [2]	0.092 – 0.13 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

Disodium tetraborate (1330-43-4)	
LC50 - Fish [1]	340 mg/l (Exposure time: 96 h - Species: Limanda limanda)
EC50 - Crustacea [1]	1085 – 1402 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Sodium nitrate (7631-99-4)	
LC50 - Fish [1]	2000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 - Fish [2]	994.4 – 1107 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

Sodium metasilicate (6834-92-0)	
LC50 - Fish [1]	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
EC50 - Crustacea [1]	1700 mg/l Test organisms (species): Daphnia magna
LC50 - Fish [2]	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)

Sodium mercaptobenzothiazole (2492-26-4)	
LC50 - Fish [1]	0.3 – 1.1 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	1.9 – 5.1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

Sodium mercaptobenzothiazole (2492-26-4)	
LC50 - Fish [2]	3.8 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

12.2. Persistence and degradability

DCA-2 Liquid	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

DCA-2 Liquid	
Bioaccumulative potential	Not established.

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

Disodium tetraborate (1330-43-4)	
BCF - Fish [1]	(no evidence of bioaccumulation)

Sodium nitrate (7631-99-4)	
Partition coefficient n-octanol/water	-3.8 (at 25 °C)

Sodium mercaptobenzothiazole (2492-26-4)	
Partition coefficient n-octanol/water	-0.46

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. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Empty containers may contain residues which are hazardous.

SECTION 14: Transport information

In accordance with DOT / TDG

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable

Proper Shipping Name (TDG) : Not applicable

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not applicable

TDG
Transport hazard class(es) (TDG) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US 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

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Revision date : 02/10/2026
Other information : None.
Prepared by : Nexreg Compliance Inc.
www.Nexreg.com
Prepared for : Fleetguard

Indication of changes:
SDS update. Manufacturer Information

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