

MATERIAL SAFETY DATA SHEET

Initial MSDS Date: 04/01/97

Updated: 07/25/03

MSDS: LT16572

Prepared by: Fleetguard, Inc.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Code: DCA 30L (pint); DCA 35L (½ gal.); DCA 40L (1 gal.); DCA 45L (5 gal.);
DCA 50L (55 gal.)

Product Name: *FLEETCOOL DCA-2 LIQUID*

Fleetguard, Inc., 1200 Fleetguard Road, Cookeville, Tennessee 38506

General Information Phone (931) 526-9551; 24-Hour Emergency Phone CHEMTREC (800) 424-9300

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

<u>Component</u>	<u>CAS#</u>	<u>Exposure Limits</u>	<u>% by Wt.</u>
SODIUM TETRABORATE	1303-96-4	OSHA PEL: N/A ACGIH TLV: N/A	5 - 15%
SODIUM NITRATE	7631-99-4	OSHA PEL: N/A ACGIH TLV: N/A	1 - 6%
SODIUM NITRITE	7632-00-0	OSHA PEL: N/A ACGIH TLV: N/A	1 - 6%
SODIUM SILICATE	6834-92-0	OSHA PEL: N/A ACGIH TLV: N/A	1 - 4%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION: THIS IS A BLUE COLORED LIQUID. INGESTION CAN CAUSE SEVERE VOMITING, SHOCK, AND DEATH.

Potential Health Effects

Eye: Corrosive to the eyes.

Skin: Corrosive to skin.

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Ingestion: Human poison by ingestion.

Inhalation: Inhalation of mist or spray will irritate nasal passages.

Chronic (Cancer) Information: Information not available.

Teratology (Birth Defect) Information: Information not available.

Reproduction Information: Information not available.

4. FIRST AID MEASURES

Eyes: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes while holding eyelids apart. Get medical attention.

Skin: Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists. Remove and discard contaminated clothing and shoes.

Ingestion: Toxic by ingestion. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Inhalation: Remove effected persons to fresh air. If symptoms occur, consult physician.

Note to Physicians: Treat for clinical symptoms. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. This material is corrosive, it will have an irritant effect upon mucous membranes.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point: N/A Method: COC

FLAMMABLE LIMITS:

Lower Flammable Limit: N/A

Upper Flammable Limit: N/A

AUTOIGNITION TEMPERATURE: Information not available.

HAZARDOUS COMBUSTION PRODUCTS: Contact of sodium nitrite with combustible materials and organic matter may cause fire. Sodium nitrite intensifies fires of other materials.

EXTINGUISHING MEDIA: To fight fires, use water.

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FIRE FIGHTING INSTRUCTIONS: Wear positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing to provide limited protection.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Soak up spills with an industrial absorbent and place material into a suitable container. Wear protective clothing.

LARGE SPILL: Soak up spills with an industrial absorbent and place material into a suitable container. Spills on other than pavement (e.g. soil or sand) may be handled by removing the effected soil and placing it in approved containers. For more information, call Chemtrec at (800) 424-9300.

7. HANDLING AND STORAGE

HANDLING: Wash thoroughly after handling. Wear protective clothing, gloves, and eye protection. Avoid breathing vapors. Avoid breathing mist. Remove contaminated clothing and wash before reuse.

STORAGE: Store drums closed and away from extreme temperatures. DO NOT FREEZE. Keep away from strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use adequate mechanical ventilation.

RESPIRATORY PROTECTION: None special.

SKIN PROTECTION: If dispensing, use an apron impervious to corrosive materials (to protect from splashing), sleeves, and impervious gloves.

EYE PROTECTION: Use chemical goggles or a face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (@ 760 mmHG): 100° C

Vapor Pressure (mmHG): 760 @ 100° C

Vapor Density (Air = 1): N/A

Solubility in Water (% WGT.): 100%

Specific Gravity of Concentrate: 1.14 - 1.16

pH: 11.3 - 12.0

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Appearance: Blue colored liquid.

Volatile Organic Compounds (VOC): N/A

10. STABILITY AND REACTIVITY

Chemical Stability: Stable; however, sodium nitrate and sodium nitrite intensify fires of other materials.

Incompatibility: Sodium nitrate and sodium nitrite are strong oxidizing agents and are incompatible with organic matter, cyanides, acids, salts, urea, and wood.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and oxides of nitrogen. When heated to decomposition, it emits fumes of NO_x and Na₂O.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Eye: Corrosive to the eyes.

Skin: Corrosive to skin.

Ingestion: Ingestion can cause severe vomiting, shock, and death. Ingestion of sodium nitrite can result in motor activity changes, coma, and decreased blood pressure.

Inhalation: Inhalation of mist or spray will irritate nasal passages and upper respiratory tract.

Subchronic: Information not available.

Chronic/Carcinogenicity: Information not available.

Teratology: Information not available.

Reproduction: Information not available.

Mutagenicity: Information not available.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: Information not available.

Chemical Fate Information: Information not available.

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13. DISPOSAL CONSIDERATIONS: Dispose in accordance with applicable federal, state, and local laws. Contact local or state agencies to obtain information on recycling.

14. TRANSPORT INFORMATION (Not meant to be all inclusive):

NFPA/HMIS Rating: Health 1, Flammability 0, Reactivity 1

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

EPA Regulations: Not a USEPA hazardous waste.

OSHA Regulations: This product contains OSHA regulated hazardous substances (please reference Section 2).

Section 313: This product contains sodium nitrite, which is a substance subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

INTERNATIONAL REGULATIONS:

Canadian WHMIS: Information not available.

Canadian Environmental Protection Act (CEPA): Information not available.

EINECS: Information not available.

STATE REGULATIONS: Consult state regulatory agencies to determine specific regulations which might apply to this product.

16. OTHER INFORMATION

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Disclaimer of Liability: The information contained herein is based on the data available to us and, is to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we assume no liability for damages incurred by use of this material. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist. Users of this product should satisfy themselves that the conditions and methods of use assure the product is used safely. No representations or warranties, either expressed or implied, or any nature are made hereunder with respect to the information contained herein. It is the responsibility of the user to comply with any and all federal, state, or local laws and regulations that may exist. Nothing contained herein is to be construed as a recommendation for use in violation of any applicable laws or regulations.

Consult Fleetguard Inc. for further information.