



DEPARTMENT OF THE NAVY

NAVAL SURFACE WARFARE CENTER
CARDEROCK DIVISION

NAVAL SHIP SYSTEMS
ENGINEERING STATION
5001 S. BROAD STREET
PHILADELPHIA, PA 19112-1403

IN REPLY REFER TO

9593

Ser 635/215

1-6350-480

DEC 8 2005

From: Commander, Naval Surface Warfare Center, Carderock
Division, Philadelphia Site, Philadelphia, PA
19112-1403
To: Commanding Officer, Navy Environmental Health Center,
620 John Paul Jones Circle, Suite 1100, Portsmouth,
VA 23708-2103

Subj: REQUEST FOR ADMINISTRATIVE HEALTH HAZARD ASSESSMENT

Ref: (a) PHONCON btwn NSWCCD (Code 635) Ms. Sarah
Aschenbach/NEHC Mr. Mike Swartout of 16 Nov 05

Encl: (1) E-Mail NSWCCD (Code 635) Ms. Sarah Aschenbach and
NEHC Mr. Mike Swartout of 15 Nov 05

1. As discussed during reference (a), the Naval Surface Warfare Center, Carderock Division (NSWCCD), Code 635 is requesting that the Navy Environmental Health Center (NEHC) conduct an Administrative Health Hazard Assessment (AHHA) on the data provided in enclosure (1).

2. Please address any questions and concerns to Ms. Sarah Aschenbach at NSWCCD, Code 635, Philadelphia, PA. Ms. Aschenbach can be reached via Commercial telephone at 215-897-7401 or Defense Secure Network (DSN) 443-7401.


STEPHEN D. NOVIELLI
By direction

Copy to:
COMNAVSEASYS COM WNY, DC (SEA 05M4/M. Chapkovich)

Aschenbach, Sarah E CIV NSWCCD Philadelphia, 635

From: Aschenbach, Sarah E CIV NSWCCD Philadelphia, 635
Sent: Tuesday, November 15, 2005 9:39 AM
To: Mike Swartout (E-mail)
Cc: Cruz, Carlos A CIV NSWCCD Philadelphia, 635
Subject: Health Hazard Assessment for AFFF

Mike,

Could you conduct a Health Hazard Assessment on the enclosed MSDSs? Please let me know if you need any additional information.

Thanks,
Sarah



MSDS-BFC3MS.pdf 3M FC-206CF
GHT WATER AFFF 6

Sarah Aschenbach
NSWCCD-SSES Code 635
Philadelphia Naval Business Center
Code 635, Bldg. 1000
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Philadelphia, PA 19112
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Phone: 215-897-7401
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MATERIAL SAFETY
DATA SHEET

3M
3M Center
St. Paul, Minnesota
55144-1000
1-800-364-3577 or (651) 737-6501 (24 hours)

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DIVISION: 3M SPECIALTY MATERIALS

TRADE NAME:

FC-206CF LIGHT WATER(TM) AFFF 6%

ID NUMBER/U.P.C.:

98-0211-5624-9	00-51135-10159-9	98-0211-5625-6	00-51135-10160-5
98-0211-5626-4	00-51135-10161-2	98-0211-5627-2	00-51135-10162-9
98-0211-5628-0	00-51135-10163-6	98-0211-5629-8	00-51135-10164-3
98-0211-5630-6	- - -	ZF-0002-0614-2	- - -
ZF-0002-0621-7	- - -	ZF-0002-0791-8	- - -

ISSUED: March 16, 2000

SUPERSEDES: December 17, 1999

DOCUMENT: 10-4323-1

1. INGREDIENT	C.A.S. NO.	PERCENT	
WATER.....	7732-18-5	78.0	- 81.0
DIETHYLENE GLYCOL BUTYL ETHER.....	112-34-5		10.0
UREA.....	57-13-6	3	- 7
ALKYL SULFATE SALTS(2) +(5809P, 5810P) ..	TradeSecret	1.0	- 5.0
AMPHOTERIC FLUOROALKYLAMIDE DERIVATIVE +(5807P).....	TradeSecret	1	- 2
TRIETHANOLAMINE.....	102-71-6	0.1	- 1
PERFLUOROALKYL SULFONATE SALTS(5) +(5808P).....	TradeSecret	0.1	- 1
RESIDUAL ORGANIC FLUOROCHEMICALS.....	Mixture		Unknown

The components of this product are in compliance with the chemical
notification requirements of TSCA. All applicable chemical
ingredients in this material are listed on the European Inventory of
Existing Chemical Substances (EINECS), or are exempt polymers whose
monomers are listed on EINECS.

New Jersey Trade Secret Registry Number (EIN) 04499600-+

This product contains the following toxic chemical or chemicals subject to
the reporting requirements of Section 313 of Title III of the Emergency
Planning and Community Right-To-Know Act of 1986 and 40 CFR Part 372:

DIETHYLENE GLYCOL BUTYL ETHER

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

2. PHYSICAL DATA

BOILING POINT:..... ca. 100 C
(Initial)
VAPOR PRESSURE:..... ca. 17.8 mmHg
Calc. @ 20 C
VAPOR DENSITY:..... ca. 0.69 Air=1
Calc. @ 20 C
EVAPORATION RATE:..... < 1.0 BuOAc=1
SOLUBILITY IN WATER:..... Miscible
SPECIFIC GRAVITY:..... 1.03 Water=1
PERCENT VOLATILE:..... ca. 90 %
PH:..... ca. 8.5
VISCOSITY:..... N/D
MELTING POINT:..... N/A

APPEARANCE AND ODOR:
Clear, amber colored liquid.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... None (Setaflash CC)
FLAMMABLE LIMITS - LEL:..... N/A
FLAMMABLE LIMITS - UEL:..... N/A
AUTOIGNITION TEMPERATURE:..... N/A

EXTINGUISHING MEDIA:
Product is a fire-extinguishing agent.

SPECIAL FIRE FIGHTING PROCEDURES:
Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARDS:
See Hazardous Decomposition section for products of combustion.

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:
Not applicable.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

4. REACTIVITY DATA (continued)

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Oxides of Sulfur, Hydrogen Cyanide, Hydrogen Fluoride, Ammonia

Thermal decomposition of usage concentrations does not present a hazard.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Observe precautions from other sections. Ventilate area. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container.

RECOMMENDED DISPOSAL:

Discharge spent solutions and small quantities (less than 5 gal. (19 L)) to a wastewater treatment system. Reduce discharge rate if foaming occurs. Large quantities may adversely affect biological wastewater treatment systems. Incinerate large quantities in an industrial or commercial incinerator. Combustion products will include HF.

ENVIRONMENTAL DATA:

A Product Environmental Data Sheet (PED) is available.

5-Day Biological Oxygen Demand (BOD5): 0.16 g/g; 20-Day Biological Oxygen Demand (BOD20): 0.18 g/g; Chemical Oxygen Demand (COD): 0.34 g/g; 20-Day BOD/COD: 0.53, 96-Hr LC50, Fathead minnow (*Pimephales promelas*): >1,000 mg/L; 48-Hr EC50, *Daphnia magna*: >1,000 mg/L; 96-Hr Static Algae (*Selenastrum capricornutum*): 254 mg/L (233-277); 30-Min. EC50, *Photobacterium phosphoreum* (Microtox System): 680 mg/L (610-750); 3-Hr EC50 (OECD METHOD #209): >1,000 mg/L.

REGULATORY INFORMATION:

Volatile Organic Compounds: 103 gms/liter South Coast Air Quality Mgmt Dist Method Calc. @ 20 C.
VOC Less H2O & Exempt Solvents: N/D.

Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, the user should determine if the release qualifies as a reportable quantity. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

The components of this product are in compliance with the chemical registration requirements of: TSCA, EINECS, CDSL, AICS, MITI.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

5. ENVIRONMENTAL INFORMATION (continued)

OTHER ENVIRONMENTAL INFORMATION:

This product contains one or more organic fluorochemicals that have the potential to resist degradation and persist in the environment.

EPCRA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: No

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Flush skin with large amounts of water. If irritation persists, get medical attention.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact with vapor, spray, or mist. Wear vented goggles.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber.

RECOMMENDED VENTILATION:

If exhaust ventilation is not adequate, use appropriate respiratory protection. Provide ventilation adequate to control vapor concentrations below recommended exposure limits and/or control spray or mist.

RESPIRATORY PROTECTION:

Avoid breathing of airborne material. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half-mask

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

7. PRECAUTIONARY INFORMATION (continued)

organic vapor respirator with dust/mist prefilter.

PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Wash hands after handling and before eating.

RECOMMENDED STORAGE:

Store away from areas where product may come into contact with food or pharmaceuticals. Store at temperatures below 120 degrees F (49 degrees C). Store at temperatures above 32 degrees F (0 degrees C). Keep container closed when not in use. Keep container in well-ventilated area.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed. Nonflammable.

OTHER PRECAUTIONARY INFORMATION:

No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of the hazardous decomposition products mentioned in the Reactivity Data section of this MSDS.

HMIS HAZARD RATINGS: HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0
PERSONAL PROTECTION: X (See precautions, section 7.)

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
WATER.....	NONE	NONE	NONE	NONE	
DIETHYLENE GLYCOL BUTYL ETHER.....	35	PPM	TWA	CMRG	
UREA.....	10	MG/M3	TWA	AIHA	
ALKYL SULFATE SALTS(2) +(5809P, 5810P).....	NONE	NONE	NONE	NONE	
AMPHOTERIC FLUOROALKYLAMIDE DERIVATIVE +(5807P).....	NONE	NONE	NONE	NONE	
TRIETHANOLAMINE.....	5	MG/M3	TWA	ACGIH	
PERFLUOROALKYL SULFONATE SALTS(5) +(5808P).....	0.1	MG/M3	TWA	3M	Y
RESIDUAL ORGANIC FLUOROchemicals.....	0.1	MG/M3	TWA	3M	Y

* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- 3M: 3M Recommended Exposure Guidelines
- ACGIH: American Conference of Governmental Industrial Hygienists

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*

- AIHA:	American Industrial Hygiene Assoc. Workplace Environmental Exposure Level Guideline				
- CMRG:	Chemical Manufacturer Recommended Exposure Guidelines				
- NONE:	None Established				

8. HEALTH HAZARD DATA

EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

INHALATION:

Single overexposure, above recommended guidelines, may cause:

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

IF SWALLOWED:

Animal studies conducted on organic fluorochemicals which are present in this product indicate effects including liver disturbances, weight loss, loss of appetite, lethargy, and neurological, pancreatic, adrenal and hematologic effects. There are no known human health effects from anticipated exposure to these organic fluorochemicals when used as intended and instructed.

Ingestion may cause:

Aspiration Pneumonitis: signs/symptoms can include coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Ingestion may cause:

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

8. HEALTH HAZARD DATA (continued)

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors and convulsions.

OTHER HEALTH HAZARD INFORMATION:

A Product Toxicity Summary Sheet is available.

This product contains one or more organic fluorochemicals that have the potential to be absorbed and remain in the body for long periods of time, either as the parent molecule or as metabolites, and may accumulate with repeated exposures. There are no known human health effects from anticipated exposure to these organic fluorochemicals when used as intended and instructed.

The presence of organic fluorochemicals in the blood of the general population and subpopulations, such as workers, has been published dating back to the 1970's. 3M's epidemiological study of its own workers indicates no adverse effects.

SECTION CHANGE DATES

PRECAUTIONARY INFO. SECTION CHANGED SINCE December 17, 1999 ISSUE

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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MATERIAL SAFETY DATA SHEET

IDENTITY- BUCKEYE 3% MIL SPEC AFFF

SECTION I. Chemical Product and Company Identification

Product Name: Buckeye 3% MIL SPEC AFFF (BFC-3MS)
Synonym: 3% Mil Spec Concentrate, Mil Spec Aqueous Film Forming Foam
Manufacturer: Buckeye Fire Equipment Company
110 Kings Road
Kings Mountain, NC 28086
Telephone: 704.739.7415
Emergency: CHEMTREC 1.800.424.9300

Revision Date: 07/23/04

SECTION II. Hazard Identification and Emergency Overview

Emergency Overview: None of the chemicals in this product are under SARA reporting requirements or have SARA Threshold Planning Quantities or CERCLA Reportable Quantities. This product is not defined as a hazardous material under U.S. Department of Transportation 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations.

Appearance: Pale yellow water-based liquid solution, mild sweet odor.

Adverse Health Effects and Symptoms: No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet. Symptoms that may arise if the product is mishandled are irritation to the skin and eyes, coughing or sore throat if ingested. Central nervous system effects may occur if ingested.

Hazard Symbols:

HMIS RATINGS:

Health 1
Flammability 0
Reactivity 0

Personal Protective Equipment: use eye protection, gloves, and appropriate skin protection (See Section 8)

WHMIS (Canadian Workplace Hazardous Materials Identification)
D2B- May irritate eyes, mucous membranes, or skin

SECTION III. Composition/Information on Ingredients

	<u>Weight %*</u>	<u>CAS #</u>
Water	> 56	7732-18-5
Hexylene Glycol	< 19	107-41-5
Proprietary mixture of fluorosurfactants and hydrocarbon surfactants	< 25	N/A

* % is rounded to the nearest appropriate number. Values are not to be considered product specifications

SECTION IV. First Aid Measures

Eye Exposure- Flush eyes at eye wash station for 15 minutes and repeat until pain-free. If irritation develops or persists or vision changes occur, seek medical attention.

Skin Exposure- Wash with plenty of soap and water. If irritation develops or persists, seek medical attention.

Inhalation- Move victim to fresh air. Trained personnel may provide oxygen if breathing is difficult. If irritation develops or persists, seek medical attention.

MATERIAL SAFETY DATA SHEET

IDENTITY- BUCKEYE 3% MIL SPEC AFFF

Ingestion- If victim is conscious and alert, give 2-3 glasses of water to drink. Do not leave victim unattended. Seek immediate medical attention. On the advice of medical personnel, induce vomiting. If vomiting occurs and the victim is conscious, give additional water to further dilute the chemical. Prevent aspiration of swallowed product by laying victim on side with head lower than their waist.

Medical Conditions Possibly Aggravated by Exposure- Inhalation of the product may aggravate existing chronic respiratory conditions.

SECTION V. Firefighting Measures

Extinguishing Media: N/A. This product is an extinguishing agent. It is nonflammable and noncombustible.

Special Firefighting Procedures: N/A

Unusual Fire and Explosion Hazards: This product may decompose in fire and release oxides of sulfur and nitrogen (Refer to Section X).

Sensitivity to Mechanical Impact or Static Discharge: None

SECTION VI. Accidental Release Measures

Large spills (1 drum or more) should be addressed by hazardous materials technicians following a site-specific emergency response plan and trained in the appropriate use of personal protection equipment. Clean up released product using absorbent socks for containment followed by absorbent material within the containment. If deemed necessary, wear appropriate APR for amines/glycol ethers (See Section VIII). Bag and drum for disposal. If product is used and/or contaminated, use personal protection equipment and containment appropriate to the nature of the mixture. Prevent material from entering waterways. Handle and dispose of as a hazardous waste unless testing indicates otherwise. Decontaminate with detergent and water.

SECTION VII. Handling and Storage

Avoid eye, respiratory, and skin exposure. Use the appropriate personal protective equipment when handling. Wash thoroughly after handling (Refer to Section VIII). Product should be stored in its original container or extinguisher. Use in well-ventilated areas. Do not mix with other extinguishing agents.

SECTION VIII. Exposure Controls and Personal Protection

During the use of this product on fires, exhaust gases and products of incomplete combustion are the main respiratory hazards. In the manufacture of this product, employers and employees must use their collective judgment in determining the on-the-job settings where the use of a respirator is prudent. The need for respiratory protection is not likely for short-term use in well-ventilated areas.

Respiratory Protection: Use air-purifying respirators or powered air-purifying respirators with organic vapor and amine cartridges for short-term exposures, otherwise use positive pressure supplied air respirators or self-contained breathing apparatus.

Eye Protection: Wear chemical goggles.

Skin Protection: Use nitrile, latex, or similar gloves and coveralls. Good personal hygiene practices are essential. After handling the product, avoid food, tobacco products, or other means of transferring the product from hand to mouth until after thoroughly washing.

SECTION IX. Physical and Chemical Properties

Appearance and Odor: Pale yellow liquid solution with a mild, sweet odor.

Specific Gravity: 1.02

Boiling Point: 97° C

Flash Point: N/A

Flammability: N/A

Solubility: 100%

MATERIAL SAFETY DATA SHEET
IDENTITY- BUCKEYE 3% MIL SPEC AFFF

SECTION X. Stability and Reactivity

Stability: Stable

Incompatibles: Strong acids, bases, and oxidizers. Reactive metals. Any material reactive with water

Decomposition Products: Not known, but oxides of sulfur and nitrogen may be formed.

Hazardous Reactions: None

SECTION XI. Toxicological Information

Routes of Entry:

Eye Contact: May cause mild transient irritation

Skin Contact: May cause mild transient irritation and/or dermatitis

Inhalation: Inhalation is not anticipated to be a problem

Ingestion: Irritating to mucous membranes. Large oral doses could produce narcosis

Chronic Toxicity: This product's ingredients are not considered as probable or suspected carcinogens by OSHA, IARC, or ACGIH.

Reproductive Toxicity: This product is not known to have any reproductive effects.

SECTION XII. Considerations for Disposal

This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal regulations. Be aware that product used on a fire may be altered or contaminated and thereby require different disposal considerations.

SECTION XIII. Transportation Information

This product is not defined as a hazardous material under U.S. Department of Transportation 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations.

SECTION XIV. Regulatory Information

International Inventory Status: Some ingredients are on the following inventories

<u>Country</u>	<u>Agency</u>
U.S.A.	TSCA
Canada	DSL
Europe	EINECS/ELINCS
Australia	AICS
Japan	MITI
South Korea	KECL

European Risk and Safety Phrases:

EU Classification- Xi Irritant

R Phrases- 36 Irritating to eyes, respiratory system, and skin.

S Phrases- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
36 Wear suitable protective clothing

U.S. Federal Regulatory Information:

None of the chemicals in this product are under SARA reporting requirements or have SARA Threshold Planning Quantities or CERCLA Reportable Quantities.

MATERIAL SAFETY DATA SHEET
IDENTITY- BUCKEYE 3% MIL SPEC AFFF

State Regulatory Information:

Chemicals in this product are covered under the specific State regulations noted:

Alaska	Designated Toxic and Hazardous Substances- None
California	Permissible Exposure Limits for Chemical Contaminants- None
Florida	Substance list- None
Illinois	Toxic Substance List- None
Kansas	Section 302/303 List- None
Massachusetts	Substance list- None
Minnesota	List of Hazardous Substances- None
Missouri	Employer Information/Toxic Substance List- None
New Jersey	Right to Know Hazardous Substance List- None
North Dakota	List of Hazardous Chemicals, Reportable Quantities- None
Pennsylvania	Hazardous Substance List- None
Rhode Island	Hazardous Substance List- None
Texas	Hazardous Substance List- No
West Virginia	Hazardous Substance List- None
Wisconsin	Toxic and Hazardous Substances- None

California Proposition 65- No component is listed on the California Proposition 65 List

SECTION XV. Other Information

This MSDS conforms to the requirements under U.S., U.K., Canadian, Australian, and EU Regulations or Standards. It conforms to the proposed 2003 ANSI Z400.1 format.

The information contained herein is given in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made.