MATERIAL SAFETY DATA SHEET IDENTITY- BUCKEYE FLUOROPROTEIN FOAM

SECTION I. Chemical Product and Company Identification

Product Name: Buckeye Fluoroprotein Foam (Fluorofoam 903/906) Synonym: FFFP Concentrate, Film Forming Fluoroprotein

Manufacturer: Buckeye Fire Equipment Company

110 Kings Road

Kings Mountain, NC 28086

Telephone: 704.739.7415

Emergency: CHEMTREC 1.800.424.9300

Revision Date: 1/11/12

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: Dark brown liquid solution, strong organic odor.

Adverse Health Effects and Symptoms: No adverse health effects expected if 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. Cramps, nausea, and diarrhea 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

	Weight %*	CAS #
Hydrolyzed Protein	80 - 90	100085-61-8
Hexylene Glycol	2 - 6	107-41-5
Proprietary mixture of fluorosurfactants, metal salts, and bactericide	4 - 18	N/A

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

Note: Buckeye Fluoroprotein does not degrade into nor does it contain PFOS.

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- Inhalation is not an anticipated route of exposure. If irritation develops, move victim to fresh air and if it persists, seek medical attention.

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Ingestion- If victim is conscious and alert, give 2-3 glasses of milk or water to drink. Seek immediate medical attention. Do not leave victim unattended. Do not 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- Skin contact may aggravate existing chronic skin 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, nitrogen, and carbon (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 on a fire 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

Respiratory 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. Use air-purifying respirators or powered air-purifying respirators with organic vapor and amine cartridges for acute short-term exposures. Long term exposures may require the use of 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: Dark brown, viscous liquid with a strong organic odor.

Specific Gravity: 1.12 – 1.15

Boiling Point: 100° C Flash Point: > 100° C Flammability: N/A Solubility: 100%

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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: Avoid prolonged or repeated inhalation
Ingestion: May cause nausea, vomiting, and diarrhea

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: Hexylene Glycol is on the following inventories

CountryAgencyU.S.A.TSCACanadaDSLEuropeEINECS/ELINCSAustraliaAICSJapanMITISouth KoreaKECL

European Risk and Safety Phrases: (hexylene glycol component)

EU Classification- Xi Irritant

R Phrases- 36/38 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

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.

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State Regulatory Information:

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

Alaska Designated Toxic and Hazardous Substances- Hexylene glycol

California Permissible Exposure Limits for Chemical Contaminants- Hexylene glycol

Florida Substance list- Hexylene glycol Illinois Toxic Substance List- Hexylene glycol

Kansas Section 302/303 List- None Massachusetts Substance list- Hexylene glycol

Minnesota List of Hazardous Substances- Hexylene glycol

Missouri Employer Information/Toxic Substance List- Hexylene glycol New Jersey Right to Know Hazardous Substance List- Hexylene glycol North Dakota List of Hazardous Chemicals, Reportable Quantities- None

Pennsylvania Hazardous Substance List- None

Rhode Island Hazardous Substance List- Hexylene glycol

Texas Hazardous Substance List- None
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.