



# Erace Incorporated

Manufacturer of PYROCAP B-136

## PYROCAP B-136

### MATERIAL SAFETY DATA SHEET EFFECTIVE DATE: 1 June 2004

#### CAUTION

Avoid eye contact with concentrate; may be irritating. Avoid unprotected prolonged exposure of the skin to concentrate.

#### CLASSIFICATION: NON-HAZARDOUS

#### A. PRODUCT IDENTIFICATION

PYROCAP B-136 is a proprietary mixture of surfactants and other materials in an aqueous solution.

#### B. HAZARDOUS COMPONENT(S)

HAZARDOUS COMPONENT(S)	CAS NUMBER	ACGIH TLV	OSHA PEL	PERCENT COMPOSITION
NONE				

Substances present at a concentration of 0.1% or more classified as a carcinogen by IARC, NTP or OSHA: None Known

Substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: None

#### C. OCCUPATIONAL CONTROL PROCEDURES

##### 1. For Handling Concentrates:

- Avoid eye contact with concentrate. Wear goggles when handling concentrate.
- Avoid prolonged skin contact with concentrate. Use of rubber or plastic gloves is recommended to avoid prolonged skin contact with concentrate.
- Avoid excessive inhalation of concentrate's vapors.
- Ventilation- Handle concentrate in a well ventilated area.
- Avoid ingestion of concentrate.

##### 2. For Handling Diluted Product:

- Avoid unnecessary eye contact.
- Minimal effects expected when contact with eyes does occur. Rinse with water if material should get into eyes.

#### D. FIRE PROTECTION INFORMATION FOR CONCENTRATES

- Flash point: Flash point is greater than 500°F.
- Unusual Fire or Explosion Hazards: NONE.

#### E. PHYSIOLOGICAL EFFECTS AND HEALTH INFORMATION

NOTE: All animal tests reported in this section for both the concentrate and diluted mixtures were done in accordance with the requirements found in "Interim Requirements and Manufacturer Submission Procedures for Wildland Fire Foams: Special Report 8651 1803, 5100-Fire, August, 1986".

The results of the test, which follow, are all acceptable under these requirements:

##### 1. For concentrate before diluting water:

- Eye Irritation: Moderately irritating
- Skin Irritation: Moderately irritating
- Acute Oral Toxicity: Low: LD50 >5050 mg/Kg
- Acute Dermal Toxicity: Low: LD50 >2020

2. For Diluted Product (1 percent by volume):
  - a. Eye Irritation: Moderately irritating
  - b. Skin Irritation: Moderately irritating
  - c. Acute Oral Toxicity: Low: LD50 >5050 mg/Kg
  - d. Acute Dermal Toxicity: Low: LD50 >2020

F. PHYSICAL DATA OF CONCENTRATE

1. Color: Dark reddish/brown
2. Odor: Slightly eucalyptol
3. pH: 8.5-9.3
4. Specific Gravity: 1.04
5. Vapor Pressure: (mm.Hg) at 20°C; Less than 1

G. REACTIVITY DATA

1. Stability: Concentrate has the stability of five years for temperatures between 35°F and 90°F (sustained heat exposure). For extreme temperatures (up to 120°F) the shelf life will be less. Freezing point of concentrate is 14°F (-10°C). If frozen, the concentrate can be used after thawing.
2. Corrosion Performance: All uniform and interangular corrosion tests were performed and completed by the USFS in accordance to the procedures outlined in "interim Requirements and Manufacturer Submission Procedures for Wildland Fire Foams: Special Report 8651 1803, 5100-Fire, August, 1986".

Results of uniform corrosion tests on aluminum, brass, and mild steel were found to be in the acceptable limits. However, the corrosion test for magnesium exceeded the required limit for all wildland fire chemicals for use in fixed tank helicopters. With the exception of magnesium, long term corrosion tests were all within the acceptable limits. Therefore, PYROCAP B-136 IS NOT APPROVED FOR USE IN FIXED TANK HELICOPTERS.

Interangular corrosion tests were found to be within the acceptable range.

3. Storage: The concentrate should be stored in high density polyethylene or polyethylene-lined containers, fiberglass, or steel tanks only.

H. SPILL, LEAK, and DISPOSAL INFORMATION

Amounts of five (5) gallons or more may be mopped up and disposed as chemical waste. Smaller amounts may be flushed where local ordinances do not prohibit disposal of biodegradable detergent materials.

I. TRANSPORTATION DATA

1. D.O.T.: Not regulated
2. Reportable Quantity: Not applicable
3. Freight Classification: Cleaning compound
4. Non-hazardous, non-flammable, non-corrosive

J. ENVIRONMENTAL PROTECTION

Results of dynamic toxicity test with killifish in accordance with ASTM E729 were within acceptable limits. Reference: "Results of Flow-Through Toxicity Tests on Test Materials from Pyrocap Inc." EA Engineering, Science and Technology, Inc. July 1989.

K. EMERGENCY & FIRST AID PROCEDURES (FOR CONCENTRATES)

EYE CONTACT: FLUSH EYES IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.

SKIN CONTACT: Wash off with water.

NOTICE OF WARRANTY: Erace Incorporated warrants that Erace Incorporated products are reasonably fit for the purposes for which they were developed only when used in accordance with recommended use practices under the above conditions. In no case shall Erace Incorporated be liable for consequential, special, or indirect damages resulting from the use or handling of these products. All such risks shall be assumed by the buyer.

ERACE INCORPORATED MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.