



# Centurion™ C6 6%

Aqueous Film-Forming Foam  
NFC340

- ✓ Excellent fluidity provides rapid "knockdown".
- ✓ Suitable for use with fresh or sea water.
- ✓ Compatible with a wide range of proportioning and foam making devices.
- ✓ Suitable for use with foam compatible dry powder extinguishing agents.
- ✓ Underwriters Laboratories, Inc.
- ✓ Underwriters Laboratories of Canada (ULC).
- ✓ Formulated using 'C6' fluorosurfactant technology



AFFF foam concentrates are designed for rapid fire knockdown by producing a thin aqueous film which spreads across the surface of the fuel, separating the fuel from oxygen. This is accomplished by allowing the foam solution to quickly drain from the foam bubble which in turn, affects long term sealability and burnback resistance.

Centurion<sup>C6</sup> 6% is used at 6% concentration in fire suppression systems and manually to fight fires involving hydrocarbon fuels such as crude oil, gasoline, and fuel oils. It is not suitable for use on polar solvents or water miscible fuels such as alcohols, ketones, esters, and ethers. Typical installations include foam water sprinkler systems, aircraft hangars, loading racks, process areas, etc. Centurion<sup>C6</sup> 6% is an excellent agent for use in aircraft rescue and fire fighting (ARFF) or other manual fire fighting applications where polar solvent fuels are not encountered.

In general, AFFF foam concentrates may be used with non aspirating nozzles and sprinklers, however, for best foam expansion and 25% drainage time all foam concentrates should be used with aspirating nozzles and foam making discharge devices.

## Typical Physical Properties

Appearance..... Colorless Liquid  
Specific Gravity at 77°F(25°C)..... 1.02  
pH..... 8.0  
Viscosity at 68°F(20°C) ..... 1.0 cST  
Freezing Point..... 28°F(-2.2°C)  
Min Usable Temperature..... 35°F(2°C)  
Max Usable Temperature..... 120°F(49°C)

## Storage and Handling

Centurion<sup>C6</sup> 6% is ideally stored in its original shipping container or in tanks or other containers which have been designed for such foam storage. Recommended construction materials are stainless steel (Type 304L or 316), high density cross linked polyethylene, or reinforced fiberglass polyester (isophthalic polyester resin) with a vinyl ester resin internal layer coating (50-100 mils). Refer to National Foam Technical Bulletin NFTB100 for further information.

Foam concentrates are subject to evaporation which accelerates when the product is exposed to air. Storage tanks should be sealed and fitted with a pressure vacuum vent to prevent free exchange of air. The recommended storage environment is within the UL listed temperature range of 35°F to 120°F (2°C to 49°C).

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When product is stored in atmospheric storage tanks, contents must be covered with 1/4-inch (6.35mm) of National Foam Seal Oil to ensure prevention of air coming into contact with the foam concentrate. Use of Seal Oil is only recommended in stationary storage tanks. Refer to National Foam Technical Bulletin NFTB100 or National Foam product data sheet NFC950 for further information.

Centurion<sup>C6</sup> 6% is freeze/thaw stable. Should the product freeze during shipment or storage, no performance loss is expected upon thawing.

It is recommended that Centurion<sup>C6</sup> 6% not be mixed with any other type of foam concentrate in long term storage. Such mixing could lead to chemical changes in the product and a possible reduction in or loss of fire fighting capability. Most expanded foams are compatible for side-by-side application during an incident.

Centurion<sup>C6</sup> 6% is suitable for use in combination with foam compatible dry chemical extinguishing agents.

### Shelf Life, Inspection, and Testing

The shelf life of any foam concentrate is maximized by proper storage conditions and maintenance. Factors affecting shelf life are wide temperature changes, extreme high or low temperatures, evaporation, dilution, and contamination by foreign materials. National Foam firefighting foam concentrates have been tested and have not shown significant loss of performance even after 10 years or more, provided annual testing and proper storage recommendations are followed. Refer to National Foam technical bulletin NFTB240 for recommendations on foam concentrate storage and preservation.

Annual testing of all fire fighting foam is recommended by the National Fire Protection Association (NFPA). National Foam provides a Technical Service Program to conduct such tests. Refer to National Foam product data sheet NFC960 for further details on Technical Service Program.

### Environmental and Toxicological Information

As all 'C6' foams contain PFAS please refer to the product's Safety Data Sheet (SDS) and website for more information regarding the use, discharge and disposal of all firefighting foam products.

Prevent foam concentrate and foam solution from entering ground water, surface water, or storm drains. Discharge and disposal of Centurion<sup>C6</sup> 6% concentrate or foam solution should be made in accordance with federal, state, and local regulations.

Centurion<sup>C6</sup> 6% has not been tested for acute oral toxicity, primary eye irritation or primary skin irritation. Repeated skin contact will remove oils from the skin and cause dryness. Centurion<sup>C6</sup> 6% is a primary eye irritant, and contact with the eyes should be avoided. Users are advised to wear protective equipment. If Centurion<sup>C6</sup> 6% enters the eyes, flush them well with water and seek immediate medical attention. For further details, see the Centurion<sup>C6</sup> 6% Safety Data Sheet NMS340.

Ordering Information			
Container	Shipping Weight	Shipping Dimensions	Part Number
5-Gallon Pails (19 liters)	45 lb. (20.4 kg)	1.13 cu. ft. <sup>3</sup> (0.032 cu. m)	2136-3340-4
55-Gallon Drums (208 liters)	490 lb. (222.3 kg)	11.51 cu. ft. <sup>3</sup> (0.326 cu. m)	2136-3481-4
275-Gallon IBC Reusable Tote Tank (1041 liters)	2475 lb. (1122.7 kg)	51.11 cu. ft. <sup>3</sup> (1.1061 cu. m)	2136-3725-4
330-Gallon IBC Reusable Tote Tank (1249 liters)	2963 lb. (1344.0 kg)	55.8 cu. ft. <sup>3</sup> (1.580 cu. m)	2136-3033-4
Bulk	8.51 lb./gal. (1.02 kg/l)		2136-3001-4

#### National Foam

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National Foam operates a continuous programme of product development. The right is therefore reserved to modify any specification without prior notice and National Foam should be contacted to ensure that the current issues of all technical data sheets are used.

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