**Assurance**

*Firefighting and environmental performance you can rely on*

National Foam prides itself on the open and honest way in which we conduct our business throughout the world. Our foam concentrates are an extension of our ethical beliefs and we pride ourselves in being the responsible foam manufacturer, balancing high performance with minimal environmental impact.

**Fluorine Free Formulations**

National Foam’s KnockDown Training Foam is designed to provide fire departments and training institutions with a unique training alternative. This unique formulation is free from fluorosurfactants and is a blend of high activity foaming agents. When minimizing environmental persistence is paramount, National Foam’s commitment and long track record of formulating specialty foam concentrates for minimal environmental impact and maximum performance offers Assurance.

- Environmentally Responsible training alternative used to simulate Aqueous Film Forming Foam
- Does not contain any fluorosurfactants or components that are reportable under current federal regulations
- Designed to be proportioned from 0.5 – 3.0%
- Provides expanded foam blanket when used with air aspirated devices
- Formulated with unique surfactant technology which minimizes fuel emulsification, minimizing environmental effects on training facilities
- Allows for quick restarts of training props
- Can be used through Class A or B foam proportioning systems
- Suitable for use in both foam evolutions scenarios as well as testing proportioning equipment operation

KnockDown Training Foam is a unique new formulation designed to provide fire departments and training facilities with a training alternative while minimizing the effects on the environment. Developed for a nationally recognized training facility, KnockDown Training Foam is environmentally responsible. KnockDown Training Foam is formulated from a unique blend of surfactants that have been selected to minimize emulsification of fuels that can cause problems with oil/water separators at large training facilities.

KnockDown Training Foam has proportioning characteristics similar to AFFF foam concentrates and provides a similar foam blanket when used with air aspirating application devices. It is designed for use from 0.5 – 3.0% proportioning through all types of proportioning equipment.

KnockDown Training Foam is not intended for use in actual firefighting operations. KnockDown Training Foam can be used at training facilities that have controlled live fire evolutions that are supervised by certified fire instructors responsible for the safety of all personnel and equipment involved.

**Typical Physical Properties**

- Appearance: Clear, colorless Liquid
- Specific Gravity at 77°F (25°C): 1.08
- pH: 7.8
- Viscosity @77°F (25°C): 22.0 cST
- Freezing Point: 8°F (-13°C)
- Min Usable Temperature: 35°F (2°C)
- Max Usable Temperature: 120°F (49°C)

**Storage and Handling**

KnockDown Training Foam should be 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 temperature range for KnockDown Training Foam concentrate is 35°F (2°C) to 120°F (49°C). 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 product data sheet NFC950 for further information.

KnockDown Training Foam is freeze/thaw stable. Should the product freeze during shipment or storage, no performance loss is expected upon thawing.

KnockDown Training Foam should not be mixed, stored, or used with any other type of foam concentrate. Proportioning and application equipment should be flushed clean after use and prior to using different foam concentrates.

### Shelf Life, Inspection, and Testing

Proper storage conditions and maintenance maximize the shelf life of any foam concentrate. Factors affecting shelf life are wide temperature changes, extreme high or low temperatures, evaporation, dilution, and contamination by foreign materials. Proper storage and maintenance will help preserve the usable condition of the foam concentrate. Under optimum storage conditions, the storage life of KnockDown Training Foam is expected to be similar to National Foam’s AFFF concentrates.

### Environmental and Toxicological Information

KnockDown Training Foam contains no ingredients reportable under the Superfund Amendments and Reauthorization Act (SARA) Title III, Section 313 of 40 CFR-372 or the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as of July 1, 1995. National Foam Concentrates do not contain PFOS. National Foam Concentrates do not contain PFOS.

KnockDown Training Foam is biodegradable. However, as with any substance, care should be taken to prevent discharge from entering ground water, surface water, or storm drains. With advance notice, KnockDown Training Foam solution can be treated by local biological sewage treatment systems. Since facilities vary widely by location, disposal or discharge of KnockDown Training Foam concentrate or foam solution should be made in accordance with federal, state, and local regulations. Refer to National Foam Technical Bulletin NFTB110 for further information.

The Biological Oxygen Demand (BOD) and Chemical Oxygen Demand (COD) of KnockDown Training Foam are as follows:

- BOD: 249,000 mg/kg
- COD: 736,000 mg/kg

Repeated skin contact will remove oils from the skin and cause dryness. KnockDown Training Foam is a primary eye irritant, and contact with the eyes should be avoided. Users are advised to wear protective equipment. If KnockDown Training Foam enters the eyes, flush them well with water and seek immediate medical attention. For further details, see the KnockDown Training Foam Safety Data Sheet NMS705.

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### Ordering Information

<table>
<thead>
<tr>
<th>Container</th>
<th>Shipping Weight</th>
<th>Shipping Dimensions</th>
<th>Part Number</th>
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</thead>
<tbody>
<tr>
<td>5-Gallon Pails (19 liters)</td>
<td>48 lb. (21.8 kg)</td>
<td>1.13 cu. ft.3 (0.032 cu. m)</td>
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<tr>
<td>Bulk</td>
<td>8.99 lb./gal. (1.08 kg/l)</td>
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<td>2170-4001-6</td>
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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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