



DATA SHEET #NFC760

TERRAFOAM 3% Protein Based Concentrate

Description

TerraFoam 3% Regular is a superior quality protein based foam concentrate used at 3% concentration to cover a substrate such as landfills, sewage holding tanks, contaminated soil sites, sludge deposits, and compost piles to effectively form a semi-permanent foam layer between the exposed surfaces of such substrates and the environment.

Various jurisdictions require that the surface of a landfill must be covered on a daily basis by a six inch layer of earth. These regulations are designed to reduce the spread of disease and trash by insects, vermin, birds, etc. by limiting their access to the garbage. Covering the day's refuse also serves to reduce odor and polluting vapors and fumes. Terrafoam eliminates the need for daily cover of earth over landfill refuse providing substantial economic benefits while reducing the wasted volume of the landfill previously occupied by soil. In addition to being readily biodegradable, TerraFoam 3% may actually add to the nutrient value of the soil and help promote biodegradation of the landfill waste as well as adding substantial moisture and some aeration.

Features

- Lasts 72 hours or longer when left as cover
- Rain, wind and heat resistant
- Prevents blowing trash and dust
- Controls disease vectors
- Suppresses odors
- Provides economic benefits by preserving landfill space
- Inhibits fires from starting and spreading
- Natural, biodegradable protein base

Typical Physical Properties

Appearance Dark Brown Viscous Liquid
Specific Gravity at 77°F(25°C) 1.20
pH 7.0
Viscosity at 77°F(25°C) 250 cps*
Minimum Usable Temperature 35°F(2°C)
Maximum Usable Temperature 120°F(49°C)

*Brookfield #2 Spindle @ 30 rpm. Viscosity measured under different shear conditions will be different because of pseudoplastic rheology of this non-Newtonian product.

Applications

TerraFoam 3% is an excellent agent used as a substitute for the dirt cover customarily applied to landfills. TerraFoam provides a protein based foam for use as a covering or barrier which lasts up to several days before collapsing and essentially does not occupy valuable land space.

TerraFoam 3% is easy to apply, provides a cover that is non-polluting and non-film forming and does not leave a permanent residue. TerraFoam 3% can be mechanically manipulated to produce various dense foam blankets with proportioning systems and discharge devices designed specifically for this application.

Storage and Handling

TerraFoam 3% 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 high density cross linked polyethylene, or reinforced fiberglass polyester (isophthalic polyester resin) with a vinyl ester resin internal layer coating (50-100 mils).

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 temperature range of 35°F to 120°F (2°C to 49°C).

It is recommended that TerraFoam 3% not be mixed with any other type of foam concentrate in long term storage. Such mixing could lead to chemical changes in the product.

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.

Environmental and Toxicological Information

TerraFoam 3% 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, TerraFoam 3% can be treated by local biological sewage treatment systems. Since facilities vary widely by location, disposal should be made in accordance with federal, state and local regulations.

The biological Oxygen Demand (BOD) and Chemical Oxygen Demand (COD) of TerraFoam 3% are as follows:

BOD5	78,000 mg/kg
COD	360,000 mg/kg

Results of tests for acute oral toxicity and primary skin irritation have proved negative. Repeated skin contact will remove oils from the skin and cause dryness. TerraFoam is a primary eye irritant, and contact with the eyes should be avoided. Users are advised to wear protective equipment. If TerraFoam enters the eyes, flush them well with water and seek immediate medical attention. For further details, see the TerraFoam Material Safety Data Sheet.

Ordering Information

CONTAINER	SHIPPING WEIGHT	PART NUMBER
5-Gallon Pails (19 litres)	52 lb. (23.6 kg)	1118-5340-8
55-Gallon Drums (208 litres)	569 lb. (258.6 kg)	1118-5481-6
275-Gallon IBC Reusable Tote Tank (1041 litres)	2876 lb. (1307.3 kg)	1118-5725-8
Bulk	9.95 lb./gal.(1.19 kg/l)	1118-5001-8

Palletizing of pails and drums is available upon request.

SHIPPING CUBE

5-Gallon Pail	1.13 cu. ft. (0.032 cu. m)
55-Gallon Drum	11.51 cu. ft. (0.326 cu. m)
275-Gallon IBC Tote Tank	51.11 cu. ft. (1.1061 cu. m)

This information is only a general guideline. The company reserves the right to change any portion of this information without notice. Terms and conditions of sale apply and are available on request.

07/01 (Rev A) Printed in USA (NFC760.pm65)

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