Dynax Corporation
79 Westchester Avenue
Pound Ridge, NY 10576
T 914 764 0202 F 914 764 0553
info@dynaxcorp.com

Technical Bulletin

DYNAX DX1080 FLUOROSURFACTANT

Dynax DX1080 is a C6 fluorotelomer-based surfactant. DX1080, a nonionic fluorosurfactant, can lower the surface tension of aqueous solutions down to 15.3 dynes/cm at very low concentrations. DX1080 has been especially designed to be used in both synthetic and protein-based, film-forming fire fighting foam agents, such as AFFF, AR-AFFF, FFFP and AR-FFFP.

Typical Properties[1]

Appearance	Clear to slightly hazy, yellowish liquid
Ionic Character	Non-ionic
Composition	39 - 41% Actives 25 - 50% Glycols 10 – 20% Carbitols Remainder: water
Density	1.17 g/ml (@25^{o}C)
Viscosity	200-400 cP's (@25^{o}C by Brookfield DV-E spindle #3, speed 20)
Flammability	Non-Flammable
pH	6.0-8.0
Solubility	DX1080 can be diluted directly with water.
Stability	At least one year if stored in original containers at temperatures not exceeding 50^{o}C (122^{o}F
Storage Stability	DX1080 should be stored at temperatures above 0^{o}C. If frozen or a solid phase separates out of the product, warm the product to room temperature and mix it well before use. Freezing and thawing will not affect the properties of the product or its performance.
Pour point	-15^{o}C

[1]Not for specifications

Surface Tension Data

% Actives in distilled water	Surface Tension (dyne/cm)
0.1	15.3
0.01	18.0
0.001	34.5

By Wilhelmy Plate Method: KRÜSS Force Tensiometer K100C

Product Safety

DX1080, a C6 fluorotelomer surfactant, cannot degrade into PFOS or PFOA.

DX1080 meets the objectives of the US EPA 2010/15 PFOA Stewardship Program.

DX1080 is not an irritant on skin.
It is a minimal irritant on eyes.
The acute oral LD_{50} for albino rats is greater than 2,000 mg/kg.

Precautions and First Aid

DX1080 should be handled with good industrial precautions. Safety goggles and rubber gloves, as well as protective clothing suitable to avoid skin contact should be worn. In case of contact with eyes, flush eyes with plenty of water and consult a physician. In case of skin contact, wash skin with plenty of water and soap.

Important Notice to Purchaser: All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof is not guaranteed. Since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability in connection therewith.

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