

Preliminary Technical Bulletin

DYNAX DX1040 FLUOROSURFACTANT

Dynax DX1040 is a highly effective and efficient blend of fluorosurfactants that can lower the equilibrium surface tension of aqueous solutions down to 16 dyne/cm at very low concentrations. DX1040 also has exceptionally low dynamic surface tension. DX1040 has been designed mainly for the formulation of aqueous film-forming fire-fighting foam agents such as Aqueous Film Forming Foam (AFFF), Film Forming Fluoroprotein (FFFP), Alcohol-Resistant Aqueous Film Forming Foam (AR-AFFF) and Alcohol-Resistant Film Forming Fluoroprotein (AR-FFFP).

Typical Properties¹

Appearance	Clear, yellowish liquid
Ionic Character	Blend
Composition	39.0% Actives 13.0% Solvents 2.2% Inorganic salts Remainder: Water
Density (@25°C)	1.19 g/ml
Flash Point	> 95°C (PM Closed Cup)
pH	6-7
Viscosity (@25°C)	46 cP's (Brookfield Spindle LV3 @50rpm)
Solubility	DX1040 can be diluted directly in water.
Stability	At least one year if stored in original containers at temperatures not exceeding 50°C (122°F).
Storage	DX1040 should be stored at temperatures above 5°C. If frozen or a solid phase separates out, 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.

¹Not for specifications

Surface Tension Data (Not for specifications)

% Actives in distilled water	Surface Tension (dyne/cm)
0.1	16.0
0.01	17.2
0.001	27.9

Product Safety

DX1040 is not derived from PFOS (Perfluorooctyl Sulfonate) or from PFOA (Perfluorooctanoic Acid). DX1040 does not degrade into PFOS or PFOA. DX1040 is made from C6 fluorotelomers containing less than 0.3% of C8 and higher homologs. C6 fluorotelomers are not subject to either the EPA's fluoropolymer/fluorotelomer stewardship program or a TSCA consent order.

DX1040 is minimal irritant on skin; it is a minimal irritant on eyes. The acute oral LD₅₀ for albino rats is > 5,000 mg/kg.

Precautions and First Aid

DX1040 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.
