

Technical Bulletin

DYNAX DX1080 (40%) FLUROSURFACTANT

Dynax DX1080 is a non-red-labeled nonionic fluorosurfactant. It can lower the surface tension of aqueous solutions down to 16 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 (Aqueous Film Forming Foam), AR-AFFF (Alcohol-Resistant Aqueous Film Forming Foam), FFFP (Film Forming Fluoroprotein) and AR-FFFP (Alcohol-Resistant Film Forming Foam).

Typical Properties¹

Appearance	Clear to slightly hazy, yellowish liquid
Ionic Character	Non-ionic
Composition	39 - 41% Actives 30 - 34% Glycols 21 - 25% Carbitols
Density (@ 25°C)	1.17 g/ml
Flash Point	43°C (109°F) (PM Closed Cup) (non-red label)
pH	6.0-7.0
Viscosity (@25°C)	120 cP's (Brookfield Spindle #3 @100rpm)
Solubility	DX1080 can be diluted directly with water.
Pour Point	-15°C
Storage Stability	DX1080 should be stored at temperatures above 0°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.

¹Not for specifications

Surface Tension Data (not for specifications)

% Actives in distilled water	Surface Tension (dyne/cm)
0.1	16.2
0.01	19.2
0.001	40.7

Product Safety

DX1080 is not derived from PFOS (Perfluorooctyl Sulfonate) or from PFOA (Perfluorooctanoic Acid). DX1080 does not degrade into PFOS or PFOA. DX1080 is made from C6 fluorotelomers containing less than 0.3% C8 and higher homologs. C6 fluorotelomers are not subject to either the EPA's fluoropolymer/fluorotelomer stewardship program or a TSCA consent order.

DX1080 is not an irritant on skin; it is a minimal irritant on eyes. The acute oral LD₅₀ 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.
