

## Preliminary Technical Bulletin

### **DYNAX DX1090 FLUROSURFACTANT**

Dynax DX1090 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. DX1090 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 Fluoroprotein).

#### **Typical Properties<sup>1</sup>**

Appearance	Clear to slightly hazy, yellowish liquid
Ionic Character	Non-ionic
Composition	34 - 36% Actives 41% Glycols 9% Carbitols Remainder: water
Density (@ 25°C)	1.15 g/ml
Flash Point	48°C Pensky-Martens Closed cup
pH	4.5 – 5.5
Viscosity (@25°C)	850 to 1400 cP's (Brookfield Spindle #3 @50rpm) at 20°C
Solubility	DX1090 can be diluted directly with water.
Pour Point	-10°C
Storage Stability	DX1090 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.

<sup>1</sup>Not for specifications

### **Surface Tension Data (not for specifications)**

% Actives in distilled water	Surface Tension (dyne/cm)
0.1	16.0
0.01	26.4
0.001	57.8

### **Product Safety**

DX1090 is not derived from PFOS (Perfluorooctyl Sulfonate) or from PFOA (Perfluorooctanoic Acid). DX1090 does not degrade into PFOS or PFOA. DX1090 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.

DX1090 is not an irritant on skin; it is a minimal irritant on eyes. The acute oral LD<sub>50</sub> for albino rats is > 5,000 mg/kg.

### **Precautions and First Aid**

DX1090 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.

<p><i>Important Notice to Purchaser:</i> 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.</p>
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