

## Technical Bulletin

### DYNAX DX4010N FLUOROSURFACTANT

Dynax DX4010N is a highly effective and efficient fluorosurfactant, especially designed to provide rapid spreading, wetting and leveling performance to various water-based coating systems, such as paints, inks, floor polishes, etc., on low surface tension substrates that are difficult to wet out. DX4010N provides both superior dynamic and equilibrium surface tensions compared to conventional surfactants including fluorochemical and silicone surfactants: it quickly lowers the surface tension of aqueous solutions down to 16 dynes/cm at a very low concentration. DX4010N can be used without a de-foaming agent because of its low foaming tendency.

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

Appearance	Clear, yellow liquid
Ionic Character	Slightly cationic
Composition	45% actives 10% Hexylene glycol 43% Water
Density (@25°C)	1.15 g/cc
Flash Point	>95°C (PM Closed Cup)
Ph	5.5-6.5
Solubility	DX4010N can be dispersed directly in water.
Stability	Stable at temperatures not exceeding 50°C.
Storage	DX4010N should be stored at temperatures above 10°C. If frozen, warm the product to room temperature and mix it well before use. Freezing should not affect the properties of the product or its performance.

<sup>1</sup>Not for specifications

### Dynamic Surface Tension Data (@ 0.1% actives in water)\*

Surface Age (Seconds)	Surface Tension (dyne/cm)
0.0051	25.2
0.051	22.5
0.52	19.7
5.2	17.2
Equilibrium	17.0

\*Dynamic surface tensions were measured using Kruss Bubble Pressure Tensiometer BP2.

Not for specifications.

### Product Safety

Animal tests indicate that skin irritation of DX4010N is minimal. DX4010N was found to be severe irritant to eyes when tested on rabbits. The acute oral LD<sub>50</sub> of albino rats is greater than 2,000 mg/kg. **DX4010N is not derived from PFOS (Perfluorooctyl Sulfonate) or from PFOA (Perfluorooctanoic Acid). DX4010N does not degrade into PFOS or PFOA.**

### Precautions and First Aid

DX4010N 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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