Stepan



Product Bulletin

AGRICULTURE

Product Name

Chemical Description

Applications

Typical Properties TOXIMUL® 3473F, 3474F, 3476F, and 3479F

TOXIMUL 3470F series surfactants are blends of linear calcium sulfonate and non-alkylphenol nonionic surfactants.

TOXIMUL 3470F series surfactants are general agricultural emulsifiers. They are used in combination with each other, generally in pairs, in an extensive range of pesticide formulations.

TOXIMUL 3473F Appearance at 25°C Dark Amber Liquid Density, g/ml (lbs/U.S. gal) at 25°C 1.02 (8.5) Moisture, % 1.0 max pH, 5% in 1:1 IPA/H2O 5.7 Viscosity, cps, at 25°C 325 Flash Point, SETA, °C (°F) 69.4 (157) Pour Point, °C (°F) 8 (46) HLB 10 RVOC, U.S. EPA, % 25 Solubility: Water Dispersible Methanol Soluble Kerosene Insoluble Xylene Soluble	TOXIMUL 3474F Dark Amber Liquid 1.03 (8.6) 1.0 max 5.4 6160 63.9 (147) -23 (<10) 6 28 Dispersible Dispersible Soluble Soluble
TOXIMUL 3476F Appearance at 25°C Dark Amber Liquid Density, g/ml (lbs/U.S. gal) at 25°C 1.04 (8.7) Moisture, % 1.0 max pH, 5% in 1:1 IPA/H20 5.4 Viscosity, cps, at 25°C 3990 Flash Point, SETA °C (°F) 69.4 (157) Pour Point, °C (°F) -23 (10) HLB 8 RVOC, U.S. EPA, % 24 Solubility: Water Dispersible Methanol Dispersible Kerosene Insoluble Xylene Soluble	TOXIMUL 3479F Dark Amber Liquid 1.01 (8.5) 1.0 max 5.8 630 67.8 (154) 9 (48) 13 25 Dispersible Soluble Insoluble Soluble
U.S. DOT ClassificationCombustible	Combustible

Other Data

Storage & Handling

Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling TOXIMUL 3470 series. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material. Use in a well ventilated area away from sparks and open flame.

TOXIMUL® is a registered trademark of Stepan Company.

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Storage & Handling

Clearances

Bulk Storage Information: TOXIMUL 3473F, 3474F, 3476F, and 3479F stored in drums at temperatures below 55°F (13°C) may thicken or solidify. They may be fluidized by warming with a drum heater or in a steam room. Drums should be vented prior to heating to avoid excessive pressure build up. Product storage temperatures over 100°F (38°C) are not recommended as excessive solvent loss may occur. The flash point may be exceeded when warming to pump but the temperature should be below the flash point for storage.

Standard Packaging: TOXIMUL 3473F, 3474F, 3476F and 3479F are available in drums (450 lb, 205 kg) and in bulk quantities.

All components of TOXIMUL 3470F series surfactants are approved for use in the following countries: United States (TSCA), Europe (EINECS/Polymer Exempt), Canada (DSL), Australia (AICS), Philippines (PICCS), China (IECSC), New Zealand (NZloC), and Korea (ECL).

The TOXIMUL 3470F series are approved for use as inert ingredients under U.S. EPA 40 CFR 180.910 and 180.960, pre- and post-harvest applications.

Additional Safety Information

A Material Safety Data Sheet is available upon request.

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