

## Technical Bulletin

# TERMUL<sup>®</sup> 5429 Surfactant

### PRODUCT DESCRIPTION

TERMUL<sup>®</sup> 5429 surfactant is a high molecular weight alkoxyolate of butanol. This product can be used in formulating agricultural products, in dye and pigment dispersions and in emulsion polymerization. TERMUL<sup>®</sup> 5429 surfactant is a white solid at room temperature and has a melt point of about 40°C.

### APPLICATIONS

• Agricultural Dispersant and Emulsifier

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### SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance at 25°C	White waxy solid	ST-30.1
Cloud point, °C (1% Aqueous)	71 - 77	ST-9.1, 5.2.1
pH, 1% in 10:6 IPA:H <sub>2</sub> O	5.0 - 7.0	ST-31.36, F
Water, wt%	0.2 max.	ST-31.53,5

\*Methods of Test are available upon request.

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### TYPICAL PROPERTIES

#### Chemical Properties

HLB Value	13 - 16
Water Solubility	Soluble
Hydroxyl Number (theoretical)	18 - 22

#### Regulatory Information

40 CFR 180	Approved
DOT/TDG Classification	Not Regulated
HMIS Code	0-1-0
CAS Number	9038-95-3
TSCA Inventory	Yes
WHMIS Classification	Not Regulated
Canadian DSL	Yes

#### Physical Properties

Flash point, PMCC, °F	446
Flash point, PMCC, °C	230
Melt point, °F	98
Melt point, °C	37
Density, g/ml at 65.6°C (150°F)	1.018
Weight, lbs/US gal at 65.6°C (150°F)	8.49
Viscosity, kinematic	
cSt at 37.8°C (100°F)	596
cSt at 65.6°C (150°F)	136

#### Performance Properties

Critical Micelle Concentration, ppm at 25°C	3.9
Surface Tension, dynes/cm	
0.01% at 25°C	39.5
0.10% at 25°C	36.5

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### TOXICITY AND SAFETY

For information on the toxicity and safe handling of this product, please read the Safety Data Sheet prior to use of the product.

### HANDLING AND STORAGE

TERMUL<sup>®</sup> 5429 surfactant may be satisfactorily stored in carbon steel tanks using steel pipes and pumps although 304 or 316 stainless steel is recommended. If carbon steel is used, caution must be exercised to keep the material in the anhydrous state to prevent severe corrosion to the carbon steel tank and related equipment. A drier on the breathing nozzle is recommended to help maintain anhydrous conditions in the storage tank.

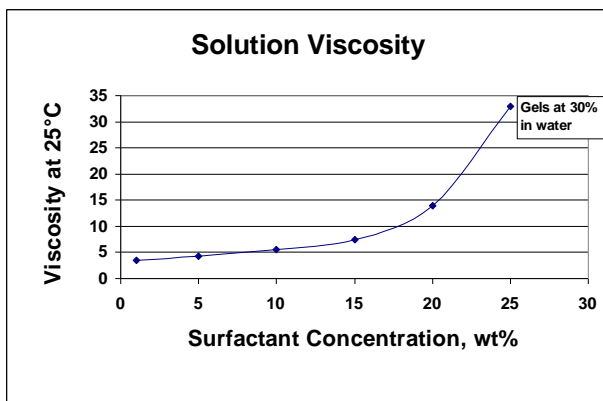
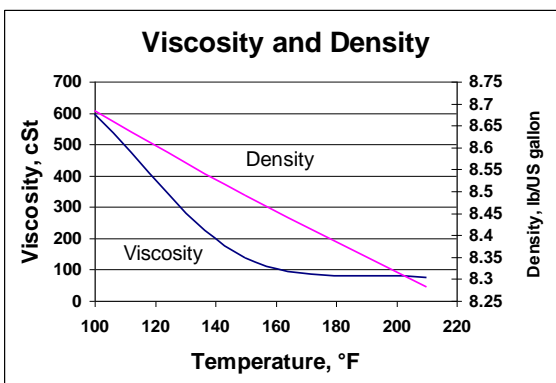
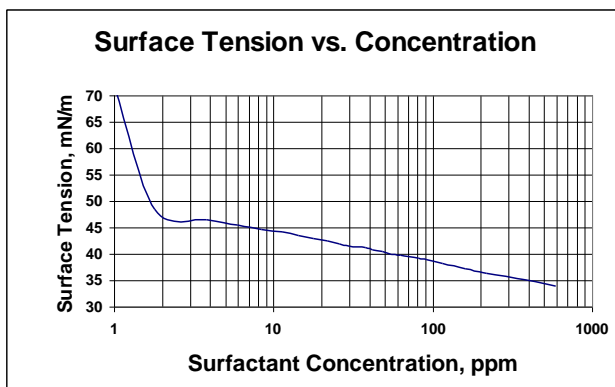
For longer term color stability, it is recommended that the product be stored under an inert atmosphere. Solid sediment may form upon standing. There should be circulation in the storage vessel to keep solids suspended.

Low pressure steam coils in storage tanks and steam tracing of transfer lines should be provided.

**SHIPPING DATA**

Product is available in tank cars, tank trucks and drums of 450 pounds (204 kilograms) net weight. Small samples can be obtained by contacting any Indorama Ventures sales office.

**IMPORTANT DATA**



13767-0320

**Indorama Ventures  
Integrated Oxides & Derivatives**  
Headquarters  
24 Waterway Avenue.  
The Woodlands, TX 77380  
(346) 365-6056

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