

## Technical Bulletin

# SURFONIC® DA-9 Surfactant

### PRODUCT DESCRIPTION

SURFONIC® DA-9 surfactant is the nine-mole ethoxylate of isodecyl alcohol. It is a water soluble, nonionic surface-active agent which is compatible with other nonionic surfactants and also with most anionic and cationic surfactants.

### APPLICATIONS

- wetting agents
- degreasers
- dispersants
- detergents
- emulsifiers

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### SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance, 25°C	Hazy liquid, free of foreign suspended matter	ST-30.1
Cloud point, °C, 1% aqueous	76 – 85	ST-9.1, 5.2.1
Color, Pt-Co	50 max.	ST-30.12
Hydroxyl number, mg KOH/g, corrected	99 – 111	ST-31.39
pH, 5% aqueous	5.5 – 7.5	ST-31.36, C
Water, wt%	0.2 max.	ST-31.53

\*Methods of Test are available upon request.

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### TYPICAL PROPERTIES

#### Chemical Properties

Molecular Weight (theoretical)	534
EO Content, wt% (theoretical)	71
HLB Value	14.2
Water Solubility	Soluble

#### Regulatory Information

For inventory status and other regulatory information, please consult the SDS.

#### Physical Properties

Flash Point, PMCC, °F	320
Flash Point, PMCC, °C	160
Melt/Freeze Point, °F	57.2
Melt/Freeze Point, °C	14
Density, g/ml at 25°C (77°F)	1.019
Weight, lbs/US gal at 25°C (77°F)	8.50
Viscosity, kinematic cSt at 25°C (77°F)	36



## TOXICITY AND SAFETY

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

## HANDLING AND STORAGE

SURFONIC® DA-9 surfactant may be satisfactorily stored in carbon steel tanks using steel pipes and pumps. Caution must be exercised, however, 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 in cases where low environmental temperatures may make pumping of the product difficult.

## SHIPPING DATA

Product is available in tank cars, tank trucks and drums. Small samples can be obtained by contacting any Indorama Ventures sales office.

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