

**Technical Bulletin****SURFONIC<sup>®</sup> TDA-6 Surfactant****PRODUCT DESCRIPTION**

SURFONIC TDA-6 surfactant is the six-mole ethoxylate of isotridecyl alcohol. It is a water dispersible, nonionic surface-active agent which is compatible with other nonionic surfactants and with most anionic and cationic surfactants.

**APPLICATIONS**

- emulsifiers
- detergents
- dispersants
- wetting agents
- degreasers

**SALES SPECIFICATIONS**

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance at 50°C	Clear to slightly turbid, free of foreign matter	ST-30.1
Cloud Point, °C (10% in 25% butyl carbitol)	69 - 73	ST-9.1,7A
Color, Pt-Co, 50°C	150 max.	ST-30.12
pH, 1% in 10:6 IPA:H <sub>2</sub> O	7.0 - 8.0	ST-31.36,F
Water, wt%	0.3 max.	ST-31.53

\*Methods of Test are available from Huntsman Corporation upon request.

**TYPICAL PROPERTIES****Chemical Properties**

Molecular Weight (theoretical)	463
EO Content, wt% (theoretical)	57
HLB Value	11.4
Hydroxyl Number (theoretical)	125
Water Solubility	Dispersible

**Regulatory Information**

DOT/ TDG Classification	Marine Pollutant
HMIS Code	2-1-0
CAS Number	24938-91-8
TSCA Inventory	Yes
WHMIS Classification	D2B
Canadian DSL	Yes

**Physical Properties**

Flash point, PMCC, °F	350
Flash point, PMCC, °C	176
Pour point, °F	30
Pour point, °C	-1
Density, g/ml at 25°C (77°F)	0.9715
Weight, lbs/US gal at 25°C (77°F)	8.10
Viscosity, kinematic	
cSt at 25°C (77°F)	272
cSt at 37.8°C (100°F)	29

**TOXICITY AND SAFETY**

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

**HANDLING AND STORAGE**

SURFONIC TDA-6 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 of 450 pounds (195 kilograms) net weight. Small samples are available by contacting our sample department at 1-800-662-0924.

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**Samples 1-800-662-0924**

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