

Technical Bulletin

SURFONIC® TDA-3B Surfactant

PRODUCT DESCRIPTION

SURFONIC TDA-3B surfactant is the three-mole ethoxylate of isotridecyl alcohol. It is an oil soluble, nonionic surface-active agent which is compatible with other nonionic surfactants and with most anionic and cationic surfactants.

APPLICATIONS

- intermediate
- emulsifiers
- detergents

SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance at 50°C	Clear to hazy, free of foreign matter	ST-30.1
Cloud Point, °C (10% in 25% DEGBE)	49 - 55	ST-9.1,7A
Color, Pt-Co, 50°C	100 max.	ST-30.12
pH, 5% in 10:6 IPA:H ₂ O	6.0 - 7.0	ST-31.36,F
Water, wt%	0.2 max.	ST-31.53

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

TYPICAL PROPERTIES

Chemical Properties

Molecular Weight (theoretical)	330
EO Content, wt% (theoretical)	40
HLB Value	8
Hydroxyl Number (theoretical)	170
Water Solubility	Insoluble

Regulatory Information

DOT Classification	Marine Pollutant
TDG Classification	Not Regulated
HMIS Code	3-1-0
CAS Number	78330-21-9
TSCA Inventory	Yes
WHMIS Classification	D2B
Canadian DSL	Yes

Physical Properties

Flash point, °F	289
Flash point, °C	143
Freezing point, °F	18
Freezing point, °C	-8
Density, g/ml at 25°C (77°F)	0.936
Weight, lbs/US gal at 25°C (77°F)	7.80
Viscosity, kinematic cSt at 25°C (77°F)	66



Enriching lives through innovation

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-3B 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 420 pounds (210 kilograms) net weight. Small samples are available by contacting our sample department at 1-800-662-0924.

**Huntsman Corporation
Business Offices**
10003 Woodloch Forest Dr.
The Woodlands, TX 77380
(281) 719-6000

**Huntsman Advanced Technology
Center
Technical Service**
8600 Gosling Rd.
The Woodlands, TX 77381
(281) 719-7780

Samples 1-800-662-0924

www.huntsman.com

3365-0510

Copyright © 2007, 2010 Huntsman Corporation or an affiliate thereof. All rights reserved.

SURFONIC® is a registered trademark of Huntsman Corporation or an affiliate thereof in one or more, but not all countries.

Huntsman Petrochemical Corporation warrants only that its products meet the specifications stated in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, NO GUARANTEE, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS OR SUFFICIENCY OF ANY INFORMATION, OR AS TO THE MERCHANTABILITY OR SUITABILITY OR FITNESS OF ANY CHEMICAL COMPOUNDS FOR ANY PARTICULAR USE OR PURPOSE, OR THAT ANY CHEMICAL COMPOUNDS OR USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. EACH USER SHOULD CONDUCT A SUFFICIENT INVESTIGATION TO ESTABLISH THE SUITABILITY OF ANY PRODUCT FOR ITS INTENDED USE. Liability of Huntsman Petrochemical Corporation and its affiliates for all claims is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, user should obtain detailed information on toxicity, together with proper shipping, handling and storage procedures, and comply with all applicable safety and environmental standards.