

## Technical Bulletin

# SURFONIC® CO-15 Surfactant

**GENERIC NAME** PEG-15-castor oil

### PRODUCT DESCRIPTION

SURFONIC® CO-15 surfactant is the 15-mole ethoxylate of castor oil. It is an oil soluble, nonionic surface-active agent which is compatible with other nonionic surfactants and with most anionic and cationic surfactants.

### APPLICATIONS

- emulsifier
- viscosity control agent
- dispersant
- lubricant
- solubilizing agent
- emollient

## SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance, 25°C	Clear liquid	ST-30.1
Cloud point (neutralized), °C (10% in 25% butyl diglycol)	53 - 57	ST-9.1, 7A
Color, Gardner	5 max.	ST-30.13
pH, 5% in distilled water	6.0 - 7.0	ST-31.36,C
Water, wt%	0.5 max.	ST-31.53

\*Methods of Test are available upon request.

## TYPICAL PROPERTIES

### Chemical Properties

Molecular Weight (theoretical)	1600
EO Content, wt% (theoretical)	41.3
HLB Value	8.2
Hydroxyl Number (theoretical)	105
Water Solubility	Insoluble

### Physical Properties

Flash point, COC, °F	>392
Flash point, COC, °C	>200
Density, g/ml at 25°C (77°F)	1.04
Weight, lbs/US gal at 25°C (77°F)	8.67

### Regulatory Information

DOT/TDG Classification	Not Regulated
HMIS Code	1-1-0
CAS Number	61791-12-6
TSCA Inventory	Yes
WHMIS Classification	Not Regulated
Canadian DSL	Yes



## 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® CO-15 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 (205 kilograms) net weight. Small samples can be obtained by contacting any Indorama Ventures sales office.

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