



# **Product Bulletin**

Product Name

Chemical Description

**Applications** 

## MERPOL® A

Alcohol phosphate

### **Functional Properties**

- Surface tension reduction
- Low foaming
- Wetting agent/emulsifier
- Ink and print paste wetting agent, viscosity modifier
- Anti-foaming agent for paper processing
- Leveling agent and anti-foamer in coatings

#### **End Product Uses**

- Chemical Manufacture
- Metal Processing
- Petroleum
- Plastics and Printing Ink Manufacture
- Textiles & Synthetic Fibers
- Cosmetics
- Paper
- Soap and Chemical Specialties

Typical Properties

4.05.00	147
Appearance at 25 °C	
Density at 25 °C, g/ml (lbs/U.S. gal)	
Actives, %	100
Flash Point (TAG), °C (°F)	138 (280)
Boiling Point at 760 mm Hg , °C (°F)	200 (393)
pH, 1% in Deionized Water at 25 °C	
Critical Micelle Concentration, %	
HLB	
Cloud Point, 1%, °C (°F)	<25 (<77)
Draves Wetting, % product required for 25 sec.	
at 25 °C (77°F)	0.13
at 71 °C (160°F)	0.06
Ross-Miles Foam Height, mm, 0.1% aqueous, at 40 °C (105 °F)	0.00
Soft Water Initial	40
Soft Water 10 min.	
Hard Water Initial	
Hard Water 10 min.	5
Surface Tension, dynes/cm	
0.10% aqueous at 25 °C	26
Solubility at 25 °C (77 °F): see next page	
Stability at 25 °C (77 °F):	
Acids	Stable
Bases	
Heat, °C (°F)	
Freezing	
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**Toxicity** 

Storage &

Handling

Clearances

Product

Stewardship

Additional

Safety Information

#### Solubility in Various Solvents (% MERPOL A in solvent)

Solvent	5.0%	1.0%	0.1%
Water	Turbid, Separates	Turbid, Separates	Turbid, Stable
10% Sodium Hydroxide	Turbid, Separates	Turbid, Separates	Turbid, Stable
10% Sulfuric	Turbid, Separates	Turbid, Separates	Turbid, Stable
Ethanol	Clear Solution	Clear Solution	Clear Solution
Isopropanol	Clear Solution	Clear Solution	Clear Solution
Ethylene Glycol	Turbid, Stable	Turbid, Stable	Turbid, Stable
Butyl Cellosolve	Clear Solution	Clear Solution	Clear Solution
Acetone	Clear Solution	Clear Solution	Clear Solution
Kerosene	Turbid, Separates	Turbid, Separates	Clear Solution
Stoddard Solvent	Turbid, Separates	Turbid, Stable	Clear Solution
Mineral Oil	Turbid, Separates	Turbid, Stable	Clear Solution
Benzene	Clear Solution	Clear Solution	Clear Solution
Carbon Tetrachloride	Clear Solution	Clear Solution	Clear Solution
Butyl Stearate	Turbid, Separates	Turbid, Stable	Clear Solution

MERPOL A is practically non-toxic orally (Oral  $LD_{50} = 7500$  mg/kg in rats) and causes severe skin and mild eye irritation.

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling MERPOL A. Contact with eyes and skin should be avoided. MERPOL A should be stored in a cool, dry place in closed containers.

Standard Packaging: MERPOL A is available in bulk and 55 gallon drums.

All components of MERPOL A are listed in the following countries: United States (TSCA listed), Europe (EINECS listed), Canada (DSL listed), China (ENCSC listed), and Australia (AICS listed). Product composition is considered a trade secret.

It is the responsibility of the formulator to review the chemical control regulations for each country where the end product is intended to be sold or used.

This product bulletin has been written in accordance with ACC's Product Stewardship guidelines.

A Safety Data Sheet is available upon request.

Responsible Care

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