

## Technical Bulletin

# XTJ-436

**XTJ-436** is a relatively hydrophobic monoamine of about 1000 molecular weight derived from a propylene oxide adduct of nonylphenol.

- APPLICATIONS**
- Emulsifiers, corrosion inhibitors, and general surfactant applications
  - Reactive intermediate
  - Fuel additives and rheology modifiers

- BENEFITS**
- Higher hydrophobicity for use in oil- and solvent- based formulations
  - Amine end group more reactive than alcohol
  - Colorless, liquid at ambient temperatures

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### SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance	Colorless to pale yellow liquid with a slight haze	ST-30.1
Color, Pt-Co	100 max.	ST-30.12
Total acetylatables, meq/g	0.95 – 1.11	ST-31.39
Total amine	0.91 – 1.08	ST-5.22
Primary amine, % of total amine	97 min.	ST-5.34
Water, wt. %	0.1 max.	ST-31.53, 6

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

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### ADDITIONAL INFORMATION

#### Regulatory Information

DOT/TDG Classification	Not regulated
HMIS Code	3-1-0
CAS Number	Proprietary
US, TSCA	Listed
Canadian WHMIS Classification	D2B
Canada, DSL	Not Listed
European Union, EINECS/ELINCS	Polymer Exempt
Australia, AICS	Not Listed
Japan, ENCS	Not Listed
Korea, ECL	Listed
China, IECSC	Not Listed

#### Typical Physical Properties

AHEW (amine hydrogen equivalent wt.), g/eq	525
Molecular weight	1005
Flash point, PMCC, °C (°F)	193.3 (380)
Density, g/ml (lb/gal), 25°C	0.979 (8.17)
Viscosity, cSt, 0°C	1618
cSt, 25°C	164
pH, 1% solution	10.5
HLB value	<1.0

## TOXICITY AND SAFETY

For additional information on the toxicity and safe handling of this product, consult the Material Safety Data Sheet (Safety Data Sheet in Europe) prior to use of this product.

## HANDLING AND STORAGE

### Materials of Construction

#### At temperatures of 75-100°F (34-38°C)

Tanks	Carbon steel
Lines, valves	Carbon steel
Pumps	Carbon steel
Heat exchange Surfaces	Stainless steel
Hoses	Stainless steel, polyethylene, polypropylene, and TEFLON®
Gaskets, packing	Polypropylene or TEFLON® (elastomers such as neoprene, Buna N, and VITON® should be avoided)
Atmosphere	Nitrogen or dry air

#### At temperatures above 100°F (38°C)

Tanks	Stainless steel or aluminum
Lines, Valves	Stainless steel
Pumps	Stainless steel or Carpenter 20 equivalent
Atmosphere	Nitrogen

XTJ-436 may be stored under air at ambient temperatures for extended periods. A nitrogen blanket is suggested for all storage, however, to reduce the effect of accidental exposure to high temperatures and to reduce the absorption of atmospheric moisture and carbon dioxide. It should be noted that pronounced discoloration is likely to occur at temperatures above 140°F (60°C), whatever the gaseous pad.

Cleanout of lines and equipment containing XTJ-436 can be accomplished using warm water and steam. In the event of spillage of this product, the area may be flushed with water. The proper method for disposal of waste material is by incineration with strict observance of all federal, state, and local regulations.

## AVAILABILITY

Samples are available in North America and Asia by contacting our sample department at 1-800-662-0924. Samples in other locations, including Europe, are available by contacting any Huntsman Corporation sales office.

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