


TERGITOL™ NP-9 Surfactant

Product Information

**Chemical
Description**

Name: Nonylphenol Ethoxylate

Surfactant Type: Nonionic

Benefits

- Excellent detergency
- Outstanding wetting
- Versatile solubility characteristics
- Exceptional handling properties
- Low odor
- Good rinseability

Applications

- Cleaners & detergents
- Paper & textile processing
- Laundry
- Paints & coatings
- Dust control
- Agrochemicals
- Metalworking fluids

Typical Physical Properties

Actives, wt%	100
Cloud Point ⁽¹⁾	54
HLB ⁽²⁾	12.9
Moles EO	9
Pour Point ⁽³⁾	-1
Appearance	Pale yellow liquid
pH, 1% aq solution	6
Viscosity at 25°C (77°F), cP	243
Density at 20°C (68°F), g/mL	1.055
Flash Pt, Closed Cup, ASTM D93	247°C 477°F

⁽¹⁾ Cloud point: °C, 1 wt% actives aqueous solution

⁽²⁾ HLB Range: <10 w/o emulsifier, > 10 o/w emulsifier, 10-15 good wetting, 12-15 detergents

⁽³⁾ Pour point: °C

Typical Performance Properties

CMC ⁽⁴⁾	60
Surface Tension ⁽⁵⁾	32
Foam Height ⁽⁶⁾	105/90
Draves 20 sec wetting conc, wt% at 25°C (77°F)	0.06
at 50°C (122°F)	0.04

⁽⁴⁾ Critical Micelle Concentration: ppm at 25°C

⁽⁵⁾ Surface tension: dynes/cm at 1% actives, 25°C

⁽⁶⁾ Ross-Miles foam height: mm at 0.1 wt% actives, 25°C, initial / 5 min tue

**Solubility and
Compatibility**

- Soluble in water
- Soluble in chlorinated solvents and most polar solvents
- Chemically stable in the presence of dilute acids, bases and salts
- Compatible with soaps, anionic and other nonionic surfactants, and many organic solvents

Contact information goes here:

North America: 1-800-447-4369

Europe: (+32) 3-450-2240

Asia/Pacific: (+852) 2879 7339

Other areas: 1-989-832-1556

<http://www.dow.com/surfactants>

NOTICE: No freedom from any patent owned by Seller or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.



UNRESTRICTED – May be shared with anyone

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow