



Technical Data Sheet

ECOSURF™ EH-9 Surfactant

Chemical Description

Name: Alcohol Ethoxylate

Surfactant Type: Nonionic

Features & Benefits

- Superior wetting
- Excellent oily soil removal
- Rapid dissolution and good rinseability
- Low odor
- No gel range
- Outstanding formulation and handling properties
- Readily biodegradable
- Aquatic toxicity $EC_{50} > 10$ mg/L

Applications

- Hard surface cleaners
- High performance cleaners
- Concentrates
- Paints and coatings
- Pulp and paper
- Textile
- Agrochemicals

Sustainability Attribute:



Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Test	Property	Unit	Result
	Cloud Point ¹		64
	HLB ²		12.5
	Moles EO		NA
	Pour Point ³	°C	16
	Appearance		Colorless to slightly yellow, clear to slightly hazy

1. Cloud point: °C, 10 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 Properties (Cont.)

Test	Property	Unit	Result
	pH, 1% aq solution		6.2
	Viscosity at 40°C (104°F)	cSt	50–52
	Density at 40°C (104°F)	g/mL	1.0069
ASTM ⁴ D93	Flash Pt, Closed Cup	°C (°F)	288 (550)

4. ASTM: American Society for Testing and Materials

Typical Performance Properties

Property	Unit	Result
CMC ¹		1066
Surface Tension ²		31

1. Critical micelle concentration: ppm at 25°C
2. Surface tension: dynes/cm at 1% actives, 25°C

Solubility and Compatibility

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

Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health and Environmental Information

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For further information, please see our website, dow.com, or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

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