



Technical Data Sheet

MATERIAL:	Polyethyleneimine																
CATALOG NUMBER:	135																
CAS NUMBER:	9002-98-6																
DESCRIPTION:	50% solids in water																
FORMULA:	$(C_2H_5N)_x$																
TYPICAL PROPERTIES:	<table><tr><td>Appearance:</td><td>Colorless to pale yellow, viscous liquid</td></tr><tr><td>Approx Mn:</td><td>60,000</td></tr><tr><td>Density:</td><td>1.07 (20°C)</td></tr><tr><td>Viscosity:</td><td>25,000 cp (20°C)</td></tr><tr><td>Pour point:</td><td>-3°C</td></tr><tr><td>pH:</td><td>12</td></tr><tr><td>Freezing point:</td><td>-20°C</td></tr><tr><td>Solubility:</td><td>Dilutable with water, glycols, and ethanol</td></tr></table>	Appearance:	Colorless to pale yellow, viscous liquid	Approx Mn:	60,000	Density:	1.07 (20°C)	Viscosity:	25,000 cp (20°C)	Pour point:	-3°C	pH:	12	Freezing point:	-20°C	Solubility:	Dilutable with water, glycols, and ethanol
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GENERAL INFORMATION:	Polyethyleneimines have been used as adhesion promoters, lamination primers, fixative agents, flocculents, cationic dispersants, stability enhancers and surface activators. Application areas include detergents, packaging, oilfield, adhesives, water treatment, inkjet inks, printing inks, dyes, cosmetics, paper industry.																
STRUCTURE:	PEI is a highly branched polymer made by the acid catalyzed polymerization of ethyleneimine. The polymer contains approximately 25% primary, 50% secondary and 25% tertiary amine groups with the general structure given below.																