

Technical Data Sheet

Product Name: Nova EA101

Emulsifier Blend for Oil-in-Water Systems

Version: 05/2025

1. Product Description

Nova EA101 is a **high-performance emulsifier blend** developed to stabilize **oil-in-water emulsions** across coatings, agrochemicals, and industrial formulations. Based on a **synergistic combination** of nonionic and anionic surfactants, it delivers **strong interfacial activity**, excellent wetting, and robust emulsification.

Its formulation is optimized to work with a wide range of oils, solvents, and actives, providing **outstanding stability** in both high-shear mixing and long-term storage conditions.

2. Applications

- Water-based paints and dispersions
- Emulsion polymerization (O/W initiator stabilization)
- Agrochemical emulsions (EC to EW conversion)
- Industrial degreasers and cleaning agents
- Textile and leather auxiliaries
- Adhesive emulsions and binders

3. Physical and Chemical Properties

Property	Specification
Appearance	Yellowish to amber clear liquid
Solubility in Water	Dispersible
Specific Gravity @ 20°C	~ 0.98 – 1.02 g/cm ³
VOC Content	Moderate
Active Content	~ 95%

4. Key Benefits & Market Value

- **Efficient Emulsification**
Forms stable, uniform emulsions across diverse oil/solvent systems
- **Wide Compatibility**
Works with polar and non-polar components in coatings and agro-industrial blends
- **Surface-Active Efficiency**
Reduces interfacial tension to improve wetting, dispersion, and penetration
- **pH Flexibility**
Maintains performance from **pH 5 to 10**, suitable for alkaline and slightly acidic systems
- **Low Foaming**
Balanced surfactant composition prevents foam buildup during production and use

5. Usage Guidelines

- **Dosage:** 1.0 – 8.0% based on total formulation weight.
- **Addition Method:** Pre-emulsify oil phase before combining with water or add directly under high shear.
- **Process Temperature:** 20 – 60°C for best results.
- **Pretests Recommended:** Required for optimizing with specific oils, solvents, or actives

6. Storage and Handling

- Store tightly sealed in a dry, shaded, and cool environment (5–35°C)
- Avoid prolonged exposure to heat or freezing conditions
- Use PPE including gloves and goggles when handling
- Shelf Life: 12 months from date of manufacture in original packaging

7. Packaging

- **50 kg drums**
- **200 kg barrels (non-returnable containers)**

For customized packaging options, please contact our sales team.

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