

Technical Data Sheet

Product name: Repoly 315

INCI name: Polyacrylamide & C13-14 Isoparaffin & Laureth-7

CAS#: 9003-05-8 & 64742-47-8 & 3055-97-8

General Information:

Repoly 315 is liquid, ready-to-use rheology modifier, stabilizer, thickener and emulsifier. It swells fast and allows you to create gel or cream immediately without neutralization or heat. It can emulsify all kinds of oil and disperse pigment and physical sunscreen. It is recommended to be used in skin cream, creamy gel, as single or united emulsifier. It can be used over a wide range of pH and makes it possible to obtain soft, supple and shining textures

Specification:

Item	Specification
Appearance	Milky liquid
Solid content (%)	45.0-50.0
Emulsion Viscosity (25°C,mPa·s)	1500-4500
Viscosity (25°C,2%water soln,mPa·s)	60,000-90,000
Residue Acrylamide (mg/kg)max	2

* These values indicate typical specification; they are not intended to be used as product specifications.

Benefits:

- No need pre-mix, heat or extra equipment, can be added in any step of emulsifying; Good thickening performance at low dosage.
- Can be used over a wide range of pH 3.5~11.5.
- Applicable to all kinds of oil such as vegetable oil, polar and nonpolar oil, without heating or other extra treatment.
- Applicable to formula containing high content silicone.
- Stabilize organic or inorganic pigment in formula; Thicken some formula containing 40% alcohol, other organic solvent and polyol.
- Resist shearing for a long time; Maintain viscosity under UV radiation

End Application :

- Cream, lotion, creamy gel
- Make-up foundation and sunscreen cream
- Formula containing polar solvent, alcohol and polyol



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- Formula containing silicone or AHA
- Hair treatment and Hair styling products

Formula guidelines

Option 1, Blend Repoly315 with oil phase. Add them into water phase. Mix them until uniform.

Option 2, Heat oil phase and water phase separately to 75-80°C. Add oil phase into water phase while mixing. Then add Repoly315 into the emulsion at 60°C. Homogenize moderately for 15-20 minutes.

Dosage:

Typically used at a level of

Used solely: 2.0~5.0%.

Used with other emulsifier: 0.2~2.0%

Storage & Handling

Standard Packing: 35kg/drum

Storage: Keep in Cool, Dry, Ventilated and Lightless Place.