

## TECHNICAL DATA SHEET

**PRODUCT NAME:** iQUAT 11  
**INCI NAME:** Polyquaternium-11  
**CAS NO:** 53633-54-8

### GENERAL INFORMATION:

**iQUAT 11** is a quaternized copolymer of vinylpyrrolidone and dimethylamino ethylmethacrylate. It is a high molecular weight product (average molecular weight ~ 1,000,000), supplied as a highly viscous, aqueous solution (20% solids). It forms clear, non-tacky, continuous films. **iQUAT 11** provides conditioning and bodying effects, with minimum build-up for hair substantively. It improves wet and dry comb ability, gloss, smoothness and manageability for hair. It also can be used to improve the skin feeling in skin care products. **iQUAT 11** is compatible with nonionic, anionic and amphoteric surfactants.

### SPECIFICATIONS:

ITEM	VALUE
Appearance	Colorless to yellowish transparent viscous liquid
Solid content (%)	19.0-21.0
pH value (25°C, 10% in water)	5.0-7.0
Color (APHA)max	120
Viscosity (25°C, mPa.s)	20,000-60,000
Vinyl pyrrolidone (%)max	0.1

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

## **BENEFITS:**

- ♦ Water soluble substance, easy to use.
- ♦ Water solution is clear; it can be used in clear rinse conditioner.
- ♦ Additive for hair:
  - Improves wet comb ability.
  - Prevents build-up of static electricity.
  - Gives hair volume and sheen.
  - Provides holding effect.
  - Provides thermal/mechanical protection.
  - Additive for improving skin feeling.
  - In shaving foams, helps to stabilize the foam.
  - Acts as a lubricant on skin through its film-forming properties.

## **END APPLICATION :**

- ♦ Conditioning shampoo
- ♦ Clear rinse conditioner
- ♦ Aerosol mousse
- ♦ Styling gels and glaze
- ♦ Shaving product
- ♦ Skin creams and lotion
- ♦ Deodorants and antiperspirant
- ♦ Liquid and bar soap

## **FORMULA GUIDELINES:**

Miscible in water and ethanol. Add it in formula at room temperature.

**DOSAGE:** 3 – 10 %

**STANDARD PACKING:** 60 kg/ 125 kg/ 200 kg/drum.

**SHELF LIFE / STORAGE:** 12 months if stored. keep in cool, dry, ventilated and lightless place.

