Specification Sheet

Product: Propanediol 1,3

INCI: Propanediol  
CAS Number: 504-63-2  
EINECS Number: 207-997-3

Summary:
Propanediol 1,3 is a natural, green, propylene glycol alternative derived from corn sugar, used as a humectant, hair and skin conditioner, preservative booster, and solvent with a light, non-sticky, slightly dry skin feel.

Benefits:
- Light, non-sticky skin feel
- Green substitute for propylene glycol from a renewable resource
- Viscosity enhancer
- Clarity enhancer for surfactant systems
- Increased freeze/thaw and heat stability
- Low potential to irritate or sensitize skin
- Good solvent for hard to dissolve ingredients as well as botanical extracts
- Boosts efficacy of preservatives
- Hygroscopic, hydrates skin and hair well

Typical Properties:
- Appearance: Clear, colorless liquid
- Odor: Sweet
- Solubility: Water
- Density: g/ml (20°C): 1.053
- Viscosity: cP (20°C): 52
- pH: Neutral
- Melting point: -24.6°C (-12.3°F)
- Boiling point: 214°C (417°F)
- Flashpoint: 129°C
- Incompatibilities: Incompatible with strong acids and oxidizing ingredients

Storage: Store sealed containers within the range of 0 - 50°C (32 - 122°F). If containers are opened, reseal and store within that temperature range, and avoid prolonged exposure to water and oxygen. The use of an inert gas, like Lotioncrafter OxBlox, or nitrogen is encouraged during storage.

Shelf life: If unopened and stored within the temperature range of 0 - 50°C (32 - 122°F), 2 years. If opened, 9 to 12 months.