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## RevCare™ NE 100S - Technical Data Sheet

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### General

RevCare NE 100S is a high performance hair styling ingredient that offers an outstanding, non-tacky hold even in high humidity environments. The product can also provide anti-frizz benefits, without building-up or weighing down hair. Hair styled with the product has outstanding sensory properties and retains a touchable soft, natural feel. The polymer is produced from natural plant based sources and is biodegradable.

### Physical Properties

The following are typical properties of RevCare NE 100S; ***they are not to be considered product specifications***

Trade Name:	RevCare™ NE 100S
INCI Name:	Sodium Polyitaconate
CAS Number:	26099-89-8
Appearance:	Off-white free flowing granulate
Solids Content:	typically 85%
pH:	5.2 (at 10 weight % in water)

### Solubility

RevCare NE 100S gives a clear solution in water and water/ethanol mixtures up to ~25% ethanol

### Formulation Advice

The product RevCare NE 100S is water soluble and can be dissolved by simply adding the solid to stirred water at room temperature.

In general RevCare NE 100S has limited solubility in oils. When formulating emulsions, RevCare NE 100S should be dissolved in water first then added after the emulsification stage at a temperature below 40°C

The RevCare NE 100S can be formulated with alcohol by dissolving the polymer in water and then gradually adding alcohol to the solution. In general higher loadings are achieved in mixtures of water and alcohol at lower pH.

RevCare NE 100S is anionic and highly polar and so this needs to be taken into account when formulating with other ingredients to ensure a stable formulation is achieved.

Recommended addition level is 5-6% by weight. There is no need to pre-neutralise.

### Recommended Applications:

- Non-aerosol pump sprays
- Aerosol and non-aerosol mousse

- Styling gels
- Styling aids such as pomades, puttys, lotions and creams

### Handling and Storage:

Before using this product, consult the Safety Sheet (SDS) for details. RevCare NE 100S is supplied as an easy to handle granule that can be poured into vessels. RevCare NE 100S has a retest date 24 months from the date of manufacture.

We recommend storing the product in its original packaging in hygienic conditions away from extremes of temperature or humidity. The product is supplied in 25kg and 125kg and 500kg packs.

### Regulatory, Toxicology and Animal Testing:

- Data on RevCare NE 100S confirms that it is a non-irritant and has a suitable skin, ocular and oral toxicology profile for use in personal care products.
- No animal testing has been performed on this material for the purpose of its use in cosmetics or personal care.
- This product is compliant with the requirements of the REACH regulations.
- No materials of animal origin, or from endangered, threatened or genetically modified organisms, were used in the manufacture of this product.
- Information relating to the EU Cosmetics Directive 76/768/EEC is available on request

### Formulation Guidelines:

#### Natural Hair Spray featuring RevCare NE 100S

#### Formulation NE1

Phase	Ingredients	Supplier	INCI name	% w/w
A	Water	-	Aqua	91.00
	Pricerine™ 9091	Croda™	Glycerin	0.50
	Panthenol	-	Panthenol	0.50
	RevCare NE 100S	Revolymex	Sodium Polyitaconate	6.00
	MinaSolve™ Green B	MinaSolve	Pentylene Glycol (and) Aqua (and) Sodium Benzoate (and) Benzoic Acid	2.00

### Method:

Add water to the main vessel. Add Panthenol and stir until dissolved. Add Glycerin and stir until dissolved. Add Minasolve Green B and stir until dissolved. Add RevCare NE 100S and stir until dissolved.

Natural Hair Mousse featuring RevCare™ NE 100S

Formulation NE2

Phase	Ingredients	Supplier	INCI name	% w/w
A	Water	-	Aqua	85.00
	Pricerine™ 9091	Croda™	Glycerin	0.50
	Panthenol	-	Panthenol	0.50
	RevCare NE 100S	Revolymex	Sodium Polyitaconate	6.00
	Olivoil Glutamate FOKSNaB	Kalichem Italia	Sodium Olivoyl Glutamate	6.00
	MinaSolve™ Green B	MinaSolve	Pentylene Glycol (and) Aqua (and) Sodium Benzoate (and) Benzoic Acid	2.00

Method:

Add water to the main vessel. Add Panthenol and stir until dissolved. Add Glycerin and stir until dissolved. Add Minasolve Green B and stir until dissolved. Add RevCare Natural Effects and stir until dissolved. Add Olivoil Glutamate and stir until dissolved.

Natural Hair Gel featuring RevCare™ NE 100S

Formulation NE3

Phase	Raw Material	Supplier	INCI	% w/w
A	Water	-	Aqua	89.00
	Pricerine™ 9091	Croda™	Glycerin	0.50
	Panthenol	-	Panthenol	0.50
	RevCare NE 100S	Revolymex	Sodium Polyitaconate	6.00
	MinaSolve Green B	MinaSolve	Pentylene Glycol (and) Aqua (and) Sodium Benzoate (and) Benzoic Acid	2.00
	Natrosol™ 250 HHR PC	Ashland™	Hydroxyethylcellulose	2.00

Method:

Add water to the vessel. Add Panthenol and stir until dissolved. Add Glycerin and stir until dissolved. Add Minasolve Green B and stir until dissolved. Add RevCare Natural Effects and stir until dissolved. Add Natrosol 250 HHR and stir until dissolved.