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## Gluconolactone SB

### Specification Sheet

**Description:** Natural broad-spectrum antimicrobial blend in powder form consisting of glucono-delta-lactone (microbial fermentation of corn) which has chelating and hydrating benefits and sodium benzoate (food grade preservative). Non-GMO. Free flowing white powder, water soluble.

**CAS:** 90-80-2, 532-32-1, 299-28-5

**INCI Name:** Gluconolactone, sodium benzoate, calcium gluconate

**Benefits:**

- Effective broad spectrum protection for a wide range of skin and hair care products
- Active in a wide pH range (best between pH 3-6)
- Has GRAS (Generally Accepted As Safe) status and is compliant with ECOCERT, WholeFoods and the European REACH regulation (Registration, Evaluation, Authorisation and restriction of Chemicals)

**Use:** Recommended use level of 0.75-2.0%. Performs best in pH 3-6. Compatible with practically all raw materials. Can be added directly to the formulation below 100°F/40°C. External use only.

**Applications:** All kinds of skin & hair care products (incl. emulsions, aqueous & anhydrous systems), sun care products, makeup products.

**Country of Origin:** USA

**Raw material source:** Gluconic acid, benzoic acid

**Manufacture:** Proprietary blend of three antimicrobial agents. Gluconolactone is produced from an aqueous gluconic acid solution by dehydration involving azeotropic distillation with alcohols, followed by crystallization from the alcohol-containing residue. Calcium gluconate is produced by neutralization of gluconic acid with lime. Sodium benzoate is produced by the neutralization of benzoic acid with sodium bicarbonate.

**Animal Testing:** Not animal tested

**GMO:** GMO-free

**Vegan:** Does not contain animal derived components