

GENENCARE™ OSMS BH

TECHNICAL DATA SHEET

Valid from: October 1, 2014

GENENCARE™ OSMS BH

- Product description**

GENENCARE™ OSMS BH is a highly purified betaine monohydrate, extracted from sugar beet. It is a natural osmolyte that protects cells from environmental stress and specifically dehydration (control of cell water balance). As a cosmetic ingredient, it has a moisturizing effect with protection and sensorial benefits in many applications: skin care, hair care and color cosmetics.

- Product identification**

INCI name *Betaine*
Chemical name *Trimethylglycine, glycine betaine*
CAS number 590-47-6

- Physical/chemical characteristics**

Appearance: free-flowing white crystals
Bulk density: 0.7-0.75 g/ml
Melting point: 241-242 °C
Molecular weight: 135.16 Da
pH (5% solution in 0,02 M KCL): 5-7

- Physical/chemical specifications (continued)**

Betaine solubility at 25°C in:

Water	160g/100g (readily soluble in water)
Methanol	55g/100g
Ethanol	8.7g/100g

- Product specifications***

Purity	min 99% d.s. betaine
Moisture	max 15% (when packed)

* complete "sales specification" document available upon request.

- Applications/formulation benefits**

Categories: skin care, toiletries (incl. hair care, oral care), color cosmetics (water-based formulations)

GENENCARE™ OSMS BH is readily soluble in water and therefore easy to formulate. It gives colorless solutions and is compatible with most ingredients, allowing a wide range of applications and formulation possibilities.

GENENCARE™ OSMS BH

is produced by Finnfeeds Finland Ltd.



General Enquiry

For further information please contact:

DuPont Industrial Biosciences
Archimedesweg 30
2333 CN Leiden
The Netherlands
Tel.: +31 71 56 86 168
Fax: +31 71 56 86 169
Email: personalcare@dupont.com

Online information via

DuPont Industrial Biosciences
<http://biosciences.dupont.com/genencare>

- **Applications/Formulation Benefits (continued)**

It can be used in every water-containing formula from simple lotions, skin creams (emulsions) to shower gels, shampoos (surfactant blends) and even color cosmetics (liquid foundation, mascara, lip gloss).

With its high melting point, GENENCARE™ OSMS BH is not as heat-sensitive and can be added in the water phase from the beginning of the emulsification process before the heating phase.

Betaine also has proven thickening and stabilizing properties. It increases the thickening effect of carbomers.

Formulation booklet available upon request.

- **Recommended use**

One to five percent (1-5%)

- **Regulatory information**

- Listed on all relevant global chemical inventories
- Complies with European, United States, Canada, Australia/New Zealand, Korea, China, Japan, Brazil and Taiwan cosmetic regulations for use in general cosmetics

- Complies with use in quasi-drugs for the following uses:

Medicated soaps, shampoos, rinses, hair removers, hair growers, medicated skin lotions, creams, milky lotions, hand creams, cosmetic oils, sunburn protection, skin packs, bath agent – restricted at 10%. (not authorized for medical lip or toothpaste use)

- **Regulatory information (continued)**

- Current uses up to 8.7% (leave-on skin care) have been reviewed by the Cosmetic Ingredient Review (CIR) panel and considered safe.

- **Certifications and statements**

- Natural certifications: Ecocert/Cosmos, Natrue
- KOSHER certified under the Circle-U
- Halal statement available

- **Shelf life**

Thirty six (36) months from date of manufacture when stored in original packaging.

- **Storage conditions**

Product is hygroscopic (attracting water). It must be stored in unopened bags and protected from humidity to maintain shelf life.

- **Packaging**

Available in 25kg multi-wall laminated white paper bags with polyethylene inner bag on one way 1,000 or 600kg pallet.

Customer Relations:
DuPont Industrial Biosciences

North America

Rochester, NY, USA
Rochester, New York (USA)
Tel.: +1 800 847 5311
Fax : +1 585 256 5295

Latin America

Buenos Aires, Argentina
Tel.: +54 11 4021 4700
Fax : +54 11 4021 4800

Europe, Middle East & Africa

Leiden, The Netherlands
Tel.: +31 71 5686 168
Fax : +31 71 5686 169

Asia/Pacific

Singapore
Tel.: +65 6586 3607
Fax : +65 6586 3675



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