

# UNIGARD OA-94

## 1. Introduction

Unigard OA-94 is a preservative based on natural or nature-identical organic substances. It contains no parabens, no substances containing halogens, no isothiazolinone and no formaldehyde-releasing substances.

All components of Unigard OA-94 are approved in the EU, the USA and Japan.

## 2. Characteristics

**Composition** Unigard OA-94 is a liquid preservative mixture, consisting of Benzoic Acid and Dehydroacetic Acid in Phenoxyethanol.

INCI Monograph ID	INCI Name	Chinese Name	CAS No.
2290	Phenoxyethanol	苯氧乙醇	122-99-6
268	Benzoic Acid	苯甲酸	65-85-0
745	Dehydroacetic Acid	脱氢乙酸	520-45-6

**Description** Slightly viscous liquid

**Analytical Data** See Specification Sheet

**Solubility** Easily soluble in: ethanol, aqueous ethanol, ethylene glycol, propylene glycol; soluble in water (25°C: 0.5 - 1.0 g/l)

**Properties** Unigard OA-94 shows a broad biostatic spectrum of action not only against gram positive and gram negative bacteria, but also against moulds and yeasts, e.g.,

Pseudomonas aeruginosa	Escherichia coli
Staphylococcus aureus	Saccharomyces cerevisiae
Aspergillus niger	Candida albicans

**Application** Preservative system for cosmetic products, not only for emulsions but also for leave-on and rinse-off formulations containing surfactants, e.g., cleansing cosmetics, such as liquid soaps, shampoos, shower gels, and personal care products, such as lotions, creams and liquid emulsions. The greatest effectiveness is obtained in products with a slightly acidic pH value up to  $\text{pH}_{(\text{max})} = 6$ .

**Use** Unigard OA-94 is generally used in a concentration range from 0.3 to 1.0%. The maximum permitted concentration for use in the finished product in the EU is 1.25%.

**Storage** 5°C - 25°C (see safety data sheet)  
**Shelf life** 2 years (see specification)

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## EU Regulations

### EU Annex VI, Part 1 – Preservative which cosmetic products may contain

#### EU Reference #: 29

**INCI Name: Phenoxyethanol**

**EU Name: 2-Phenoxyethanol**

Status:

allowed

Maximum Authorized Concentration:

1.0%

Limitations and Requirements:

None

Conditions of use and warnings which must be printed on the label: None

#### EU Reference #: 1

**INCI Name: Benzoic Acid**

**EU Name: Benzoic acid, and its sodium salt**

Status:

allowed

Maximum Authorized Concentration:

Rinse-products, except oral care products: 2.5% (acid)

Oral care products: 1.7% (acid)

Leave-on products: 0.5% (acid)

Limitations and Requirements:

None

Conditions of use and warnings which must be printed on the label: None

#### EU Reference #: 13

**INCI Name: Dehydroacetic Acid**

**EU Name: Dehydroacetic acid and its salts**

Status:

allowed

Maximum Authorized Concentration:

0.6% (acid)

Limitations and Requirements:

Prohibited in aerosol dispensers (sprays)

Conditions of use and warnings which must be printed on the label: None

## References

1. Weber, K. *Cosmetics & Toiletries magazine*. **120**, No.1, 57-62 (2005)
2. Wallhäuser, K.H. *Praxis der Sterilisation, Desinfektion – Konservierung*, Georg Thieme Verlag Stuttgart-New York (1995).  
[Wallhaeuser, K.H., *Practice of Sterilisation, Disinfection – Preservation*, Georg Thieme Verlag, Stuttgart/New York, 1995.]
3. Die Bundesbehörden der Schweizer Eidgenossenschaft, *Verordnung über kosmetische Mittel (VKos)*, Änderung vom 31. Januar 2000, Anhang 2, Sn.574-587.

*Our indications and recommendations have been worked out to the best of our knowledge and conscience, but without any obligation from our part. In particular, we do not take any responsibility concerning protection rights of a third party.*