

responsible antimicrobial solutions

trade name INCI	COSMOS*	NATRUE*	ISO 16128 % natural origin	biodegradable	features and benefits	pH value	rec. use conc. in %	applications			acc. EU Cosmetics Regulation	acc. CIR (USA)	acc. ASEAN Cosmetic Directive	TSSC 2015 (China)
								leave-on	rinse-off	wet wipes				
euxyl™ eco 910 preservative ¹ INCI: Benzyl Alcohol, Cymbopogon Flexuosus Leaf Oil, Tocopherol	COSMOS* approved	NATRUE* approved	10%		<ul style="list-style-type: none"> benzyl alcohol boosted by trendsetting lemongras oil efficient up to neutral pH in leave-on and rinse-off application provides anti-inflammatory and anti-oxidant properties fresh and invigorating smell 	3 - 8	0.5 - 1.0	+++	+++	++	max.1.1%	max. 3.33% (leave-on) max. 11.11% (rinse-off)	max.1.10%	max.1.10%
euxyl™ k 712 preservative INCI: Sodium Benzoate, Potassium, Sorbate, Aqua (Water)	COSMOS* compliant	NATRUE* compliant	55%		<ul style="list-style-type: none"> market-leading organic acid blend ready-to-process liquid cost-effective allrounder suitable for oral care and sensitive applications 	3 - 5.5	0.5 - 1.5	+++	+++	++	max. 1.96% (leave-on) max. 5.35% (rinse-off)	max. 3.33%	max. 1.96% (leave-on) max. 5.35% (rinse-off)	max. 1.96%
euxyl™ k 903 preservative ² INCI: Benzyl Alcohol, Benzoic Acid, Dehydroacetic Acid, Tocopherol	COSMOS* compliant	NATRUE* compliant	0%		<ul style="list-style-type: none"> counterpart to market-leading euxyl™ k 703 preservative enhanced antifungal properties 	3 - 6	0.4 - 1.2	+++	+++	+++	max.1.23%	max. 3.70% (leave-on) max. 10.00% (rinse-off)	max.1.23%	max.1.23%
optiphen™ bsb-w preservative INCI: Benzyl Alcohol, Sodium Benzoate, Potassium Sorbate, Aqua (Water)	COSMOS* compliant	NATRUE* compliant	36%		<ul style="list-style-type: none"> enhanced antifungal properties excellent cost-performance ratio 	2 - 5.5	0.3 - 1.0	+++	+++	++	max. 2.50%	max. 5.64%	max. 2.50%	max. 2.50%
phyteq™ raspberry n INCI: Raspberry Ketone	COSMOS* approved	NATRUE* approved	100%		<ul style="list-style-type: none"> broad-spectrum multifunctional booster with strong fungicidal efficacy at low use concentration provides antioxidant and well-aging benefits protects the skin barrier acts anti-inflammatory ideal for sensitive skin suitable for oral care 	≤9	0.3 - 1.0	+++	++	++	no restrictions for the use in cosmetics	no restrictions for the use in cosmetics	no restrictions for the use in cosmetics	no restrictions for the use in cosmetics
sensiva™ go natural multifunctional INCI: Caprylyl Glycol, Glyceryl Caprylate, Propanediol	COSMOS* approved	NATRUE* approved	100%		<ul style="list-style-type: none"> natural blend also with superb performance at neutral pH provides moisturizing properties wetting and refatting agent 	4 - 7	0.5 - 2.0	+++	+	+++	no restrictions for the use in cosmetics	max. 5.00%	no restrictions for the use in cosmetics	no restrictions for the use in cosmetics
sensiva™ sc 80 multifunctional ³ INCI: Propanediol, Caprylyl Glycol, Caprylhydroxamic Acid	—	—	64%		<ul style="list-style-type: none"> smart synergistic broad-spectrum multifunctional blend with strong fungicidal efficacy excellent cost-performance ratio provides antioxidant and well-aging benefits 	3 - 8	0.3 - 1.5	+++	+++	+++	no restrictions for the use in cosmetics	max. 5.00% (leave-on) max. 6.00% (rinse-off)	no restrictions for the use in cosmetics	no restrictions for the use in cosmetics
sensiva™ sc 83 multifunctional ⁴ INCI: Propanediol, Caprylyl Glycol, Caprylhydroxamic Acid	—	—	62%		<ul style="list-style-type: none"> smart synergistic broad-spectrum multifunctional blend with strong fungicidal efficacy excellent cost-performance ratio provides antioxidant and well-aging benefits 	3 - 8	0.3 - 1.5	+++	+++	+++	no restrictions for the use in cosmetics	max. 5.00% (leave-on) max. 6.00% (rinse-off)	no restrictions for the use in cosmetics	no restrictions for the use in cosmetics
effisyn™ la natural multifunctional INCI: Levulinic Acid, Aqua (Water)	COSMOS* approved	NATRUE* approved	100%		<ul style="list-style-type: none"> good bactericidal efficacy cost-effective ready-to-process liquid 	3 - 5.5	0.4 - 1.0	++	++	++	no restrictions for the use in cosmetics	no restrictions for the use in cosmetics	no restrictions for the use in cosmetics	no restrictions for the use in cosmetics
effisyn™ pg natural multifunctional INCI: Pentylene Glycol	COSMOS* approved	NATRUE* approved	100%		<ul style="list-style-type: none"> adds to microbial stability provides moisturizing and emolliency suitable for clear formulations ideal for face care and sensitive applications incl. baby care 	3 - 12	1.0 - 5.0	++	++	++	no restrictions for the use in cosmetics	max. 5.00%	no restrictions for the use in cosmetics	no restrictions for the use in cosmetics

1 euxyl™ eco 910 CN preservative. INCI Name: Benzyl Alcohol (and) Cymbopogon Citratus Leaf Oil (and) Tocopherol
 2 EU: not to be used in aerosol dispensers (sprays)
 3 not available in the US
 4 only available in the US and Latin America

responsibly solving for a better world

Ashland solvers are passionate about innovation and finding solutions to improve our customers' products and processes while reducing our environmental impact, preserving the world's natural resources and enhancing the quality of life, with future generations in mind.


Consumers are increasingly choosing products that originate from renewable resources. They seek planet-friendly and biodegradable labels and want assurance that ingredients are ethically sourced from farm to finished product.

At Ashland, we believe sustainably is vital to our planet for the health and wellbeing of future generations. Natural, nature-derived, and biodegradable ingredients thereby play an imperative role.

Ashland's antimicrobials are ideal solutions for products aimed at the eco-aware consumer. We support consumers in making ethical choices, reducing environmental footprint, and enhancing the quality of life within our communities while ensuring the long-term sustainability personal care products.

Antimicrobial products are designed to extend the shelf-life of cosmetic products while protecting against spoilage and contamination. All antimicrobials included in this sustainability information are characterized by some of the following criteria:

- biodegradability (OECD)
- naturality (ISO 16128)
- COSMOS* standard approval
- NATRUE* standard approval

 biodegradable: Has attained a sufficient level of biodegradation that meets the requirements for 'ready' or 'inherent' according to OECD or related methods such as, 301, 302, or 306, or product has been assessed as being biodegradable based on a read-across to a chemical with similar structure or the product components have been analyzed for biodegradation potential

 natural: meets ISO 16128-2:2017 100% natural origin content standard

 nature-derived: meets ISO 16128-2:2017 50% - 99% natural origin content standard



find the product you need
with our antimicrobial
selector tool

REGIONAL CENTERS

North America —
Bridgewater, NJ USA
Tel: +1 800 505 8984

Europe — Switzerland
Tel: +44 1562 821 207

Middle East, Africa —
Istanbul, Turkey
Tel: +90 216 538 08 00

India — Mumbai
Tel: +91 22 6148 9696

Asia Pacific —
Singapore
Tel: +65 6775 5366

Shanghai, P.R. China
Tel: +86 021 6090 6606

Latin America —
São Paulo, Brazil
Tel: +55 11 3649 0455

Mexico City, Mexico
Tel: +52 55 5276 6110

[ashland.com/contact](https://www.ashland.com/contact)

The information contained in this brochure and the various products described are intended for use only by persons having technical skill and at their own discretion and risk after they have performed necessary technical investigations, tests and evaluations of the products and their uses. Certain end uses of these products may be regulated pursuant to rules or regulations governing medical devices, drug uses, or pesticidal or antimicrobial uses. It is the end user's responsibility to determine the applicability of such regulations to its products.

All statements, information, and data presented herein are believed to be accurate and reliable, but are not to be taken as a guarantee of fitness for a particular purpose, or representation, express or implied, for which seller assumes legal responsibility. No freedom to use any patent owned by Ashland, its subsidiaries, or its suppliers is to be inferred.

© Registered trademark, Ashland or its subsidiaries, registered in various countries

™ Trademark, Ashland or its subsidiaries, registered in various countries

© 2025, 2024, 2023, Ashland / PHC22-074.2

* third party registered