



BEAUTY AND PERSONAL CARE

ULTRA PC™

Multifunctional additives for personal care and cosmetics formulations

Essential inputs. Extraordinary outcomes.™



Versatility. Efficiency. Stability.

Formulate with Confidence

Advancion's high-purity ULTRA PC™ multifunctional amino alcohols are specifically designed to deliver robust performance across a broad array of personal care and cosmetics applications, including hair care and styling, color cosmetics and skin care.

- High-efficiency neutralization and superior buffering
- Compatibility across a wide range of applications
- Improved stability and rheology with carbomer and fatty acid emulsifiers
- Gentle, low-irritation for hypoallergenic cosmetics
- Low odor and non-yellowing
- 99% minimum purity
- Contains less than 0.5% secondary amines and 50 ppb nitrosamines
- Globally compliant
- Primary amine functionality, no α-Hydrogen
- No animal testing

Primary Amino Alcohols

Structure	$\begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{C} - \text{C} - \text{CH}_2\text{-OH} \\ \\ \text{NH}_2 \end{array}$ <p>2-Amino-2-Methyl-1-Propanol</p>	$\begin{array}{c} \text{CH}_3 \\ \\ \text{HO-H}_2\text{C} - \text{C} - \text{CH}_2\text{-OH} \\ \\ \text{NH}_2 \end{array}$ <p>2-Amino-2-Methyl-1,3-Propanediol</p>
INCI	Aminomethyl Propanol	Aminomethyl Propanediol
Product Name	AMP-ULTRA™ PC-1000 AMP-ULTRA™ PC-2000 AMP-ULTRA™ PC-3000	AMPD™ ULTRA PC
Molecular Weight	89.14	105.14
pKa	9.88	8.76
Biodegradability	Readily biodegradable	Readily biodegradable



Multifunctional performance in a wide range of applications

Advancion ULTRA PC amino alcohols produce an excellent synergistic effect with fatty acid emulsifiers, carbomer and acidic resins, and deliver robust multifunctional performance—from high-efficiency neutralization and improved emulsion stabilization to enhanced pigment dispersion.



Skin and Sun Care

Enhances emulsion stability and improves rheology profile; helps improve inorganic pigment dispersion for low white-cast residue in sun care applications



Hair Sprays, Gels and Mousses

Compatible with ultra-clear gels and liquids; enables superior high-humidity curl retention and improves washability; provides outstanding in-can corrosion resistance for aerosol sprays

Global Compliance with Broad Registration

All Advancion ULTRA PC grades are compliant with the industry's most stringent standards and regulations worldwide, including:

- U.S. Food, Drug and Cosmetic Act
- European Union Regulation No. 1223/2009
- Japan Standards for Cosmetics (and amendments)
- ASEAN 2008 Cosmetic Directive (annex updated March 2013)
- China Food and Drug Administration "Safety and Technical Standards for Cosmetics"
- Brazil ANVISA Mercosur Resolution on Personal Hygiene Products and Cosmetics
- Mexico: not included in the List of Prohibited and Restricted Substances in Perfumes and Cosmetics

	Tertiary
$ \begin{array}{c} \text{CH}_2\text{-OH} \\ \\ \text{HO-H}_2\text{C} - \text{C} - \text{CH}_2\text{-OH} \\ \\ \text{NH}_2 \end{array} $ <p>2-Amino-2-Hydroxymethyl-1,3-Propanediol</p> <p>Tromethamine</p>	$ \begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{C} - \text{C} - \text{CH}_2\text{-OH} \\ \\ \text{N} \\ / \quad \backslash \\ \text{H}_3\text{C} \quad \text{CH}_3 \end{array} $ <p>2-Dimethylamino-2-Methyl-1-Propanol</p> <p>Dimethylaminomethyl Propanol</p>
TRIS AMINO™ ULTRA PC	DMAMP™ ULTRA PC
121.14	119.19
8.22	10.47
Readily biodegradable	Not readily biodegradable



Hair Colorants

Helps produce vibrant and natural-looking colors while reducing hair swelling or damage; low odor



Color Cosmetics

Improves application, spreadability and pigment dispersion; improves film development, volume and shine in mascara and eye makeup

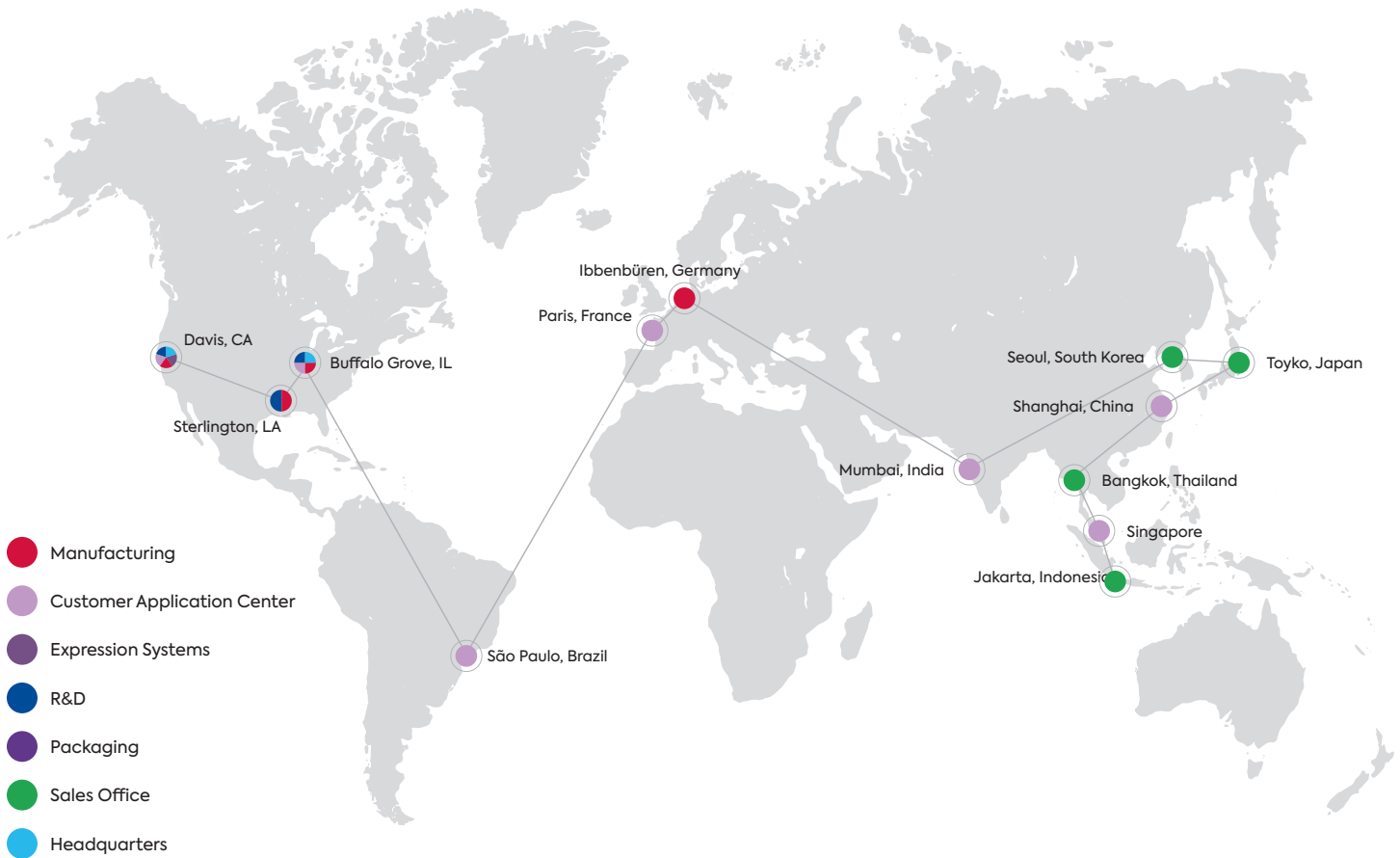


Cleansers and Hand Sanitizers

Improves stability with a high-alcohol tolerance; ideal for formulating crystal clear gels, liquids and solids

Global Reach. Local Focus.

We operate six Customer Application Centers (CAC) that serve as regional collaboration hubs by bringing together world-class technical and regulatory expertise specific to the Personal Care industry. With state-of-the-art laboratories and advanced application knowledge, our experts work side-by-side with local and regional customers to expedite innovation essential to bringing new and exciting personal care and cosmetics products to market.



Product Stewardship

Through our investments in application and new product development, we have a deep understanding of where our chemistries are (and can potentially be) used to actively address global trends in Life Sciences, Beauty and Personal Care, and other essential industries to help make our lives healthier, and more sustainable and comfortable. To help ensure that Advancion products are not used in ways for which they are not intended, Advancion personnel will assist customers in dealing with environmental and product safety considerations. Before handling any of the products, obtain available product safety information including the Safety Data Sheet(s) and take the necessary steps to ensure safety of use. For assistance, product Safety Data Sheets, or other information, please visit advancionsciences.com or contact us at info@advancionsciences.com.

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