

ISOPENTYLDIOL



kuraray



Isopentyldiol

A multi-purpose ingredient for innovative cosmetic formulations

Isopentyldiol is a multi-purpose cosmetic ingredient produced by Kuraray. It is a clear, colorless, odorless and totally water-soluble liquid that is safe to use and environmentally friendly.

INCI : Isopentyldiol

Applications

- Skin care
- Sun care & after sun creams, self-tanning products
- Hair care & body wash
- Baby care
- Toiletries
- Wet wipes
- Decorative cosmetics

Possible formulation types

- Creams, Gels, Waxes, Oils, Micellar waters, Masks, Serums, Sprays, Foaming products, Aerosols, Powders ...

Benefits

- Hair repair
- Color protection
- Emollience : Silky touch and non-tacky skin feel
- Hydration : Provides immediate moisturizing effect
- Dispersant : allows homogeneous powder and pigment spreading
- Solubilizer : efficient for actives difficult to solubilize and then for transferring them from one phase to the other

Registration status

- REACH registered
- Quasi drug in Japan
- Listed CRC-Sepa in China
- MITI
- TSCA
- ELINCS

Skin Care



- Applications : skin milk, body lotion, cream gel, anti-age, after shave, ...
- Benefits : skin feel improved, incorporation of difficult to solubilize actives, moisturizing effect in combination with sorbitol, emulsion stabilizer, preservative booster

Sun Care



- Applications : sunscreen cream and lotion, self-tanning products, after-sun milk
- Benefits : excellent dispersion of mineral filters, non-tacky skin feel, non-whitening effect of TiO₂ filters, homogeneous spreading of pigments and actives (DHA), stable at very low pH, hydrating effect in combination with sorbitol, helps penetration of some actives.

Hair Care



- Applications : shampoo, conditioner, coloration protection, spray lotion, texturing gel and powder, beard and hair styling wax
- Benefits : foam enhancer in SLES systems, hair repair in combination with sorbitol, hair strengthening after coloration, fully water miscible, anti-frizz effect, preservative booster

Baby Care



- Applications : body wash, body lotion, mild shampoo, UV protection milk
- Benefits : excellent toxicological profile, mild formulations, improved skin feel, synergetic moisturizing effect with sorbitol

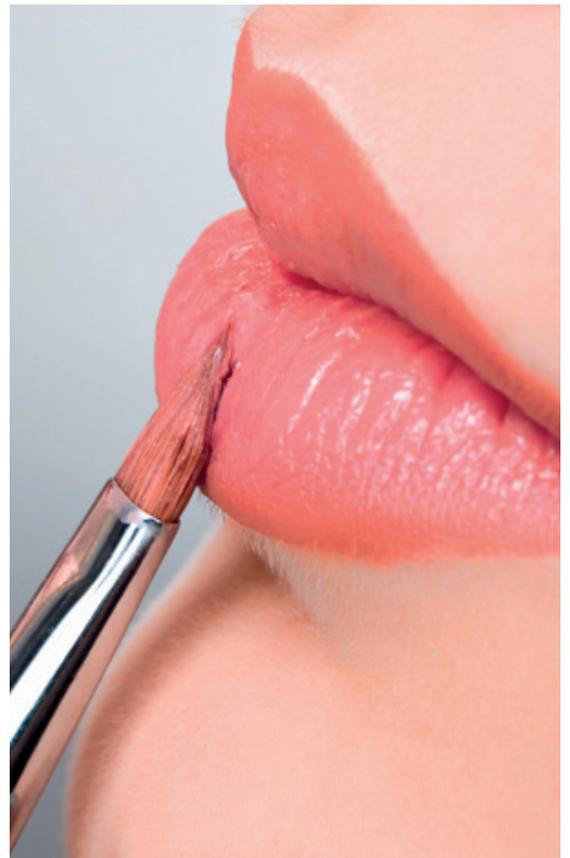
Toiletries



- Applications : hand gel, body wash, micellar lotion, day and night serum, make up remover, facial mask, wet wipe, deodorant spray, toothpaste
- Benefits : nice skin after feel, excellent performance on lipstick removal, allows lower alcohol content in perfumery or hand gels, higher foam with SLES systems, hydration effect with sorbitol

Decorative cosmetics

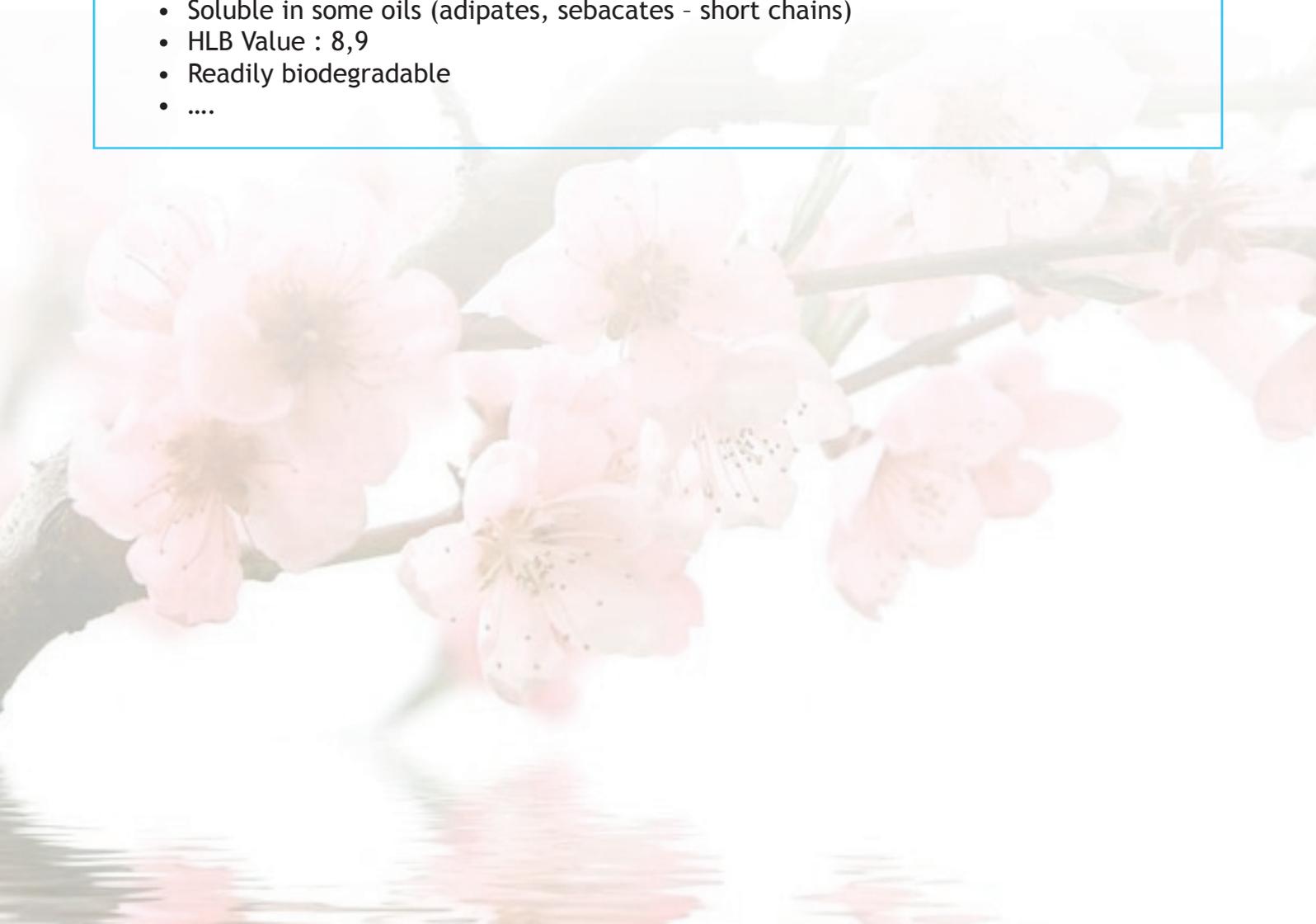
- Applications : compact powder, lipstick, cast and liquid foundation, eye shadow, lip-gloss
- Benefits : binding aid - improves breakage resistance, good compatibility with powders, improves gliding and shining effect as well as pick-up, allows homogeneous spreading of the pigments, enhances overall skin feel



Additional characteristics and benefits



- Robust molecule
 - pH stable
 - Stable at low and high temperature
 - Stable to oxidation
- Fully water soluble
- Soluble in some oils (adipates, sebacates - short chains)
- HLB Value : 8,9
- Readily biodegradable
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Adding value to your products - worldwide



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- Precautions should be taken in handling and storing. Please refer to the appropriate Material Safety Data Sheet for further safety information
- In using our products, please confirm related law and regulations, and examine its safety and suitability for the application
- For medical, health care and food contact applications, please contact your representative for specific recommendations. Our products should not be used in any devices or materials intended for implantation in the human body
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