



TDS

(Technical data sheet)

BD-800



BD-800

General Information

Decylene Glycol (1,2-Decanediol), is a multi-functional preservative with broad spectrum product protection and deodorant activity. It reduces the need for parabens, phenoxyethanol.

Decylene glycol made by B&B, It acts as a conditioning, moisturizing, antimicrobial, anti-dandruff, anti-acne and antiperspirants/deo active. It exhibits excellent activity against acne causing P. acnes. Decylene glycol shows synergism with alpha hydroxy acids against P. acnes and reduces sebum content on acne skin. It also has an effect anti-dandruff, antiperspirants/deo active so it plays a role as a skin-conditioning in hair-care.

It further shows significant impact on viscosity enhancement of the formulation like foam and viscosity and reduces the irritation potential and enhances the efficacy of other preservatives

Advantage

- Appropriate for acne-prone skin
- High antimicrobial effect
- Anti-dandruff effect
- Preservatives booster in personal care
- Skin-conditioning, especially in Hair care
- EWG 1 Grade

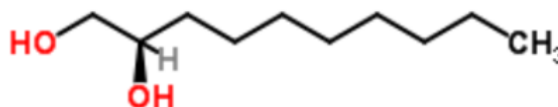
Application

- Shampoo
- Shower gel
- Surfactant based product
- Deodorant
- Handwash

Chemical Information

MSDS Name	1,2-Decanediol
INCI Name	Decylene Glycol
Cas number/EC number	1119-86-4/214-288-2
Molecular Formula	$C_{10}H_{22}O_2$
Molecular Weight	174.28g/mol
B.P/M.P(°C)	255/48

Chemical Structure



Specification

Test items	Limits	Method
Appearance	White Powder	Visual inspection
Odor	Mild, nearly Odorless	Sensory evaluation
Purity	Not less than 99.0%	GC Chromatography
Moisture	Not more than 0.5%	Karl-Fischer

Safety notice

Eye irritation notice
Allergy/irritation effect may vary from person to person

Recommended Dosage

0.02~0.05%

Packing & Shelf Life

10kg Box & 2 years from manufacturing date

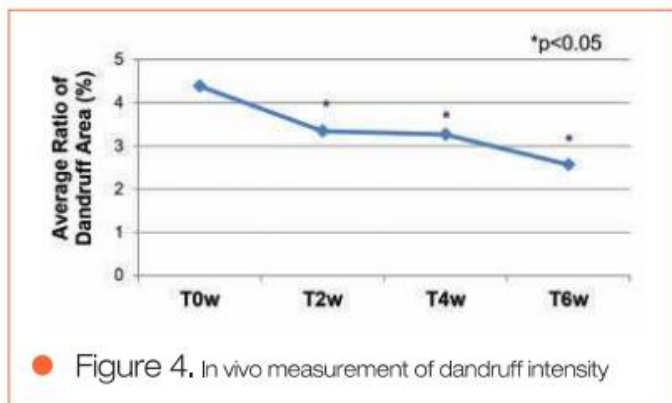
MOQ

800kg with a pallet

Storing method

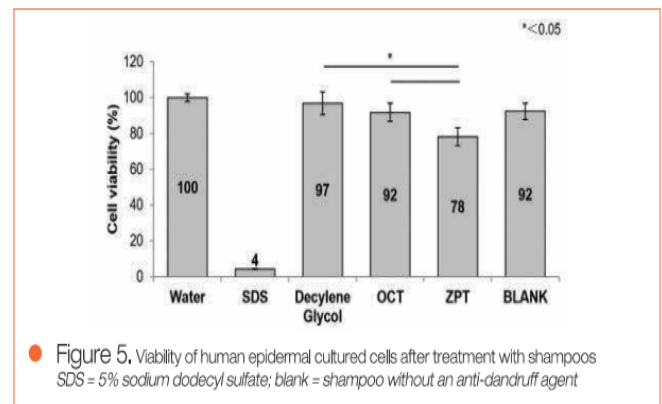
Standard 10~30°C room temperature

Reference



Although it's only 1% dosage, dandruff can be reduced

<1% Decylene glycol in shampoo anti-dandruff test>



Although it's only 1% dosage, not irritating to human epidermal cultured cells. Also, it show significantly milder than 1% ZPT

<1% Decylene glycol in shampoo cell viability test>

Company Detail

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Reference Source

RISE TO THE TOP Decylene glycol report P 66-70