

Technical Data Sheet

Product name: Reachin BND (liquid)

INCI name: 5-Bromo-5-nitro-1,3-dioxane & 1,2-propylene glycol

CAS#: 30007-47-7& 57-55-6

General Information:

Reachin BND liquid is an antibacterial agent especially effective against yeast and fungi. It is slightly less soluble in water than alcohols, but it is present in hair product formulations in such low percentages that there is no concern whatsoever about buildup on the hair, regardless of hair-care routine. It is safe as a cosmetic and personal care products ingredient at concentrations up to including 0.1%, except under circumstances where its action with amines or amides can result in the formation of nitrosamines or nitrosamines. It is widely used in rinse-off personal care products.

Quality Specification:

Item	Specification
Appearance	Colorless to yellowish transparent liquid
Odor	Slightly alcohol inherent odor
Active matter (%)	9.5-10.5
Refractive index	1.435-1.437
Free formaldehyde (ppm)max	0.5
pH value(10% solution (m))	3.0-3.5

* These values indicate typical specification; they are not intended to be used as product specifications.

Benefits:

- Effective against yeast and fungi.
- Good compatibility with anionic, cationic, nonionic surfactants.
- Efficient at low percentage.
- High stability.

End Application :

- Shampoo
- Shower gel
- Hand soap

Formula Guidelines

Maximum concentration is 1%. Amines or amides can result in the formation of nitrosamines or nitrosamides. It is sparingly soluble in water (0.5 active matters).

Storage & Handling

Standard Packing: 25kg/plastic drum.

Storage: Keep in Cool, Dry, Ventilated and Lightless Place.