

## Technical Data Sheet

**Product name:** Reachin DMDMH

**INCI name:** DMDM HYDANTOIN

**CAS#:** 6440-58-0

### General Information:

Reachin DMDMH is a high-efficient and low-cost preservative with broad spectrum activity especially to mycetes, yeast, gram positive bacterium, gram negative bacterium. It's well compatible with anionic, cationic, nonionic surfactants, keeping biological activity in presence of protein and surfactant. It's sold as form of liquid, easy to use, widely used in all kinds of formulations.

### Specification:

Item	Specification
Appearance	Colorless clear liquid
Odor	Characteristic scent
pH value (25°C)	6.5-7.5
Color (APHA) max	10
Active ingredient (%)	55.0±1.0
Moisture (%)	42.0-46.0
Total aldehyde (%)	18.0±1.0
Nitrogen content (%)	8.04-8.34

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

### Benefits:

- Excellent inactivation of coli and staphylococcus aureus
- None irritation to skin and eyes, none hypersensitiveness, sunlight hypersensitiveness, aberration and mutagenic effect under recommended usage level.
- High stability. Free aldehyde and total aldehyde won't change at 18°C, 25°C, 50°C after a year. Maintain activity at 80°C for 6 hours.
- High water-solubility.
- Good stability in wide pH value from 3.0-8.0 in formulation

### Applications

- Shampoo
- Conditioner

- Shower gel
- Hand soap

### **Formula Guidelines**

Typical dosage is 0.15~0.4%.

Micro-organisms challenge test is necessary before use.

Add in the water or emulsion phase below 50 °C. If used at high temperature, operation must be done in obturator.

### **Storage & Handling**

Packing: 25kg/drum or 200kg/drum

Storage: Above 25°C