

DMDM Hydantoin

Specification Sheet

Description: Organic compound belonging to a class of compounds known as hydantoins. Very effective broad-spectrum preservative. Active content 55.0 - 58.0%. Easily soluble in water.

CAS: 6440-58-0, 7732-18-5

INCI Name: DMDM Hydantoin, Water

Composition: DMDM Hydantoin, Water, Formaldehyde

Appearance: Clear liquid

Benefits:

- Effective broad-spectrum preservation against gram-positive and gram-negative bacteria, yeast, and mold.
- For its high-water solubility, it is particularly suggested for aqueous formulations and emulsions.
- Extends shelf life of personal care products typically to 6-18 months.
- Compatible with most cosmetic ingredients.
- Product is non-irritating and non-sensitizing.
- Environmentally friendly as it will not build up in aquatic organisms and will be broken down by microorganisms in soil.

Use: Recommended use level of 0.1-0.6% (approved for use up to 1% in USA and up to 0.6% in Europe). Performs well at pH levels up to 10 (ideal pH 4-10). Can be added directly to the formulation during pre- or post-emulsification at or below 60°C/140°F. For external use only.

Applications: All kinds of skin & hair care products, wipes, sun care products, & makeup products.

Solubility: Water-soluble

Storage: Store in a closed container at a dry place at room temperature.

Country of Origin: India

Raw material source: Formaldehyde, dimethylhydantoin

Manufacture: DMDM hydantoin is produced by reacting formaldehyde with dimethylhydantoin at 84 deg C. DMDM hydantoin can release formaldehyde.

Animal Testing: Not animal tested.

GMO: GMO-free (does not contain plant-derived components).

Vegan: Does not contain animal-derived components.

HS Code: 2933210000

California Prop. 65: WARNING: This product can expose you to chemicals including formaldehyde, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov