

MEADOWLACTONE[®]

Non-animal Origin Skincare And Haircare Additive For Cosmetics And Toiletries

GENERAL INFORMATION

MEADOWLACTONE contains a cyclical lactone ring derived from a 5-hydroxy moiety on the Meadowfoam fatty acid, in a Meadowfoam fatty acid matrix. The lactone ring confers a hydrophilic nature to that terminal end of the molecule while the long fatty acid chain confers lipophilic attributes to the rest of the molecule.

MEADOWLACTONE has amphoteric properties, since the lactone ring will open and close as a function of pH and the ionic character of the environment.

MEADOWLACTONE can help provide balanced moisturization, to improve tone, elasticity and help reduce dryness of the skin.

MEADOWLACTONE can help reduce irritancy caused by some products.

INCI NAME

Meadowfoam Delta-Lactone

CHEMICAL & PHYSICAL PROPERTIES

Appearance	Off White Soft Solid
Odor	Mild, Characteristic
Melting Point	30-45°C
Acid Value	130 max.
Saponification Value	150-200
Iodine Value	40-70

These are typical properties not to be used for specification purposes

APPLICATIONS

- Hair Shampoo
- Hair Conditioner
- Hair Setting Aid
- Hair Relaxer
- Hair Dye
- Skin Creams and Lotions
- Skin Toning
- Foundation
- Eyeshadow

- Blusher
- Lip and Eye Liners

KEY PROPERTIES

- Provides measureable and meaningful consumer benefits
- Improves appearance of the skin, moisturizing and reducing the appearance of dry skin
- Reduces coefficient of friction on skin and hair
- Helps adjust hydration levels of interstitial spaces and provides skin moisturization and protection benefits
- Contributes to an elegant after-feel
- Improves elegance and texture of products
- Reduces irritancy in products, e.g. hair relaxers and hair dyes

INCORPORATION

MEADOWLACTONE can be added at any convenient suitable stage during the manufacturing cycle with heating.

Solubility	
Deionized Water	Insoluble
Ethanol	Soluble
Isopropyl Alcohol	Dispersible
Isododecane	Insoluble
Safflower Oil	Insoluble

LEVELS OF USE

The level of use of the **MEADOWLACTONE** will depend on the formulation. Typical addition levels are 0.1-5%.

HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

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MEADOWLACTONE®

STORAGE RECOMMENDATIONS

Keep container sealed and store at room temperature.

SHELF LIFE

MEADOWLACTONE has a shelf life of 2 (two) years from date of manufacture.

QUALITY ASSURANCE

Quality and continuous improvement are paramount to our business. Facility manufacturing **MEADOWLACTONE** has established strong quality management system and holds ISO 9001 certification.

SUSTAINABILITY

MEADOWLACTONE is a raw material approved by Ecocert Greenlife in accordance with the Ecocert standard for Natural and Organic Cosmetics.

MEADOWLACTONE is a raw material approved by Ecocert Greenlife in accordance with the COSMOS Standard.



**COSMOS
APPROVED**

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