

TECHNICAL DATA SHEET**Product Name****Galaxy BanDruff****DESCRIPTION**

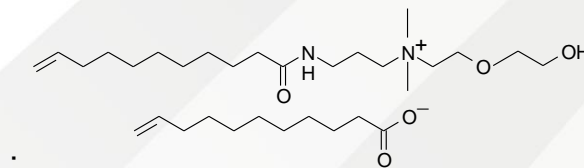
Chemical name

: Undecylenic amido propyl ethoxy hydroxyl ethyl diammonium undecylenate

INCI Name

: Undecylenamidopropyl PEG-2-Dimonium undecylenate

Chemical structure

**TECHNICAL SPECIFICATIONS**

Appearance / nature

: Clear, low viscous liquid

Colour

a) description

: Pale yellow to yellow

b) on Lovibond (5 ¼" cell, Y+R), maximum

: 20

pH (5 % aqueous solution)

: 7.0 – 9.0

Free fatty acid, % by mass (Mol.wt.184), maximum: 2

Purity, % by mass (Mol. wt. 496), minimum

: 36

PROPERTIES

Galaxy BanDruff is a unique, multi-functional, water soluble, substantive, anti-dandruff agent which is derived from natural and renewable resources. The product is fully biodegradable and in challenge studies conducted at our end found to be quite comparable against traditional anti-dandruff agents like Zinc pyrithione.

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Galaxy BanDruff is fully compatible with traditional anionic systems used in personal care products. The product being a surfactant by itself, can be very efficiently dosed to obtain desired protection.

Comparison of Antimicrobial Activity of Galaxy Bandruff and ZPTO against M. Furfur:

Compound tested against dandruff fungi M. Furfur	Conc. %	Zone of inhibition* in mm	Comments
Galaxy Bandruff	2.84	18	Effective
	1.94	18	Effective
	1.00	14	Effective
	0.50	10	Effective
ZPTO	2.89	12	Effective
	1.87	10	Effective
	1.00	08	Effective
	0.50	08	Effective

Note: *: Higher the zone of inhibition, better is the anti-dandruff nature

Benefits of using Galaxy BanDruff:

- Derived from renewable natural resources
- Fully biodegradable
- Less toxic than traditional anti-dandruff agents like Zinc pyrithione
- Easy to incorporate into various formulations

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- It is possible to derive clear anti-dandruff formulations with ease
- Being substantive in nature, it offers long lasting protection against dandruff generation
- Better spreadability due to surfactant nature
- Assists in increasing the viscosity of the shampoo formulation, thereby reducing the consumption of alkanolamides for such formulations

APPLICATIONS

Galaxy BanDruff is primarily used as anti-dandruff agent in shampoos.

The recommended dosage levels are between 1.0 – 3.0% on 100% active basis.

PACKING

Galaxy BanDruff is available in 200 kg HM-HDPE drums. Total of 80 drums i.e. 16 MT can be shipped in either palletized or non-palletized 20 ft. full container load.

HANDLING AND STORAGE

Store in a clean, dry area. Keep drums tightly closed. Store the material at temperatures between 30⁰-35⁰ C. In original, sealed containers and kept at suggested storage conditions, the material can be stored for at least 2 years. Spills may be cleaned by flushing with sufficient amount of water. Avoid ingestion and direct inhalation (where air concentration is high, appropriate mask is suggested and also avoid contact with eyes, skin and clothing). In case of contact with eyes and skin, seek adequate and timely medical attention. Stacking should be maximum 1+1 drums.

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Product Name : **Galaxy BanDruff**
Version : 02
Date of issue : 14.06.2010
TDS Updated by : Mr. Sanjay Joshi
Authorised by : Mr. Milind Patil
Ref. Doc. FGSM-IBC : 7.4.01

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