

**Galaxy Surfactants Ltd.**

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Email : [galaxy@galaxysurfactants.com](mailto:galaxy@galaxysurfactants.com)Website : [www.galaxysurfactants.com](http://www.galaxysurfactants.com)**TECHNICAL DATA SHEET****Product Name****Galaxy 689****DESCRIPTION**

Chemical Name	: Sodium Lauryl Sulfate
INCI Name	: Sodium Lauryl Sulfate
CAS Number	: 85586-07-8
EC Number	: 287-809-4
Chemical Formula	: R-OSO <sub>3</sub> Na (R = C <sub>12-14</sub> natural)

**TECHNICAL SPECIFICATIONS**

Appearance/nature	: Powder
Colour	: White to off - white
Odour	: Characteristic
pH (1 % aqueous solution)	: 7.5 - 10.5
Active Matter, % by mass (Mol. wt. 298), minimum	: 95
Chloride, % by mass as NaCl, maximum	: 0.5
Sulfate, % by mass as Na <sub>2</sub> SO <sub>4</sub> , maximum	: 2.0
N.D.O.M., % by mass, maximum	: 0.8
Moisture content, % by mass, maximum	: 2.0
Solubility / dispersibility test (10% aqueous solution):	To pass
Iron content as Fe, ppm, maximum	: 12
Arsenic as As, ppm, maximum	: 2
Heavy metals as Pb, ppm, maximum	: 20
Alkalinity as ml of 0.1N HCl/gm, maximum	: 0.6



**Galaxy 689****TECHNICAL DATA SHEET****PROPERTIES**

**Galaxy 689** is an anionic surfactant. It has excellent foaming power and detergency property. It is also a good emulsifier. It is most effective under alkaline conditions (pH >7.5). It can be used with other anionic, non-ionic or amphoteric surfactants. However, due to its anionic character, it should not be used with cationic components like cationic surfactants, cationic dyes, etc.

**APPLICATIONS**

**Galaxy 689** is used for a wide range of applications including:

- In tooth-paste as a foaming agent at concentration 1.5 - 3.0 % of the total weight
- In bathing bars (syndet and combi-bars), body wash, liquid soap, shower gels, etc. as a surfactant and as a foaming agent
- In pharmaceuticals as an emulsifier in ointment preparations, as a disintegration agent in tablets, and as an intermediate in synthesis of erythromycin estolate
- In textile auxiliaries as a scouring agent
- In emulsion polymerization as an emulsifying agent
- In toilet bowl cleaners

**PACKING**

**Galaxy 689** is available in LDPE lined HDPE bags. 240 bags palletized i.e. 6 MT (25 kgs per bag) or 300 bags non-palletized i.e. 7.5 MT (25 kgs per bag) can be shipped in a 20 ft. box container. It is available in fibre drums. Total of 90 drums i.e. 3.87 MT (43 kg per drum) can be shipped either palletized or non-palletized in a 20 ft. container. It can be supplied in jumbo bags with wooden crates. Total of 10 jumbo bags i.e. 3.75 MT (375 kgs per jumbo bag) can be shipped in 20 ft. container.



**Galaxy 689****TECHNICAL DATA SHEET****HANDLING AND STORAGE**

Store in a clean and dry area away from moisture, sunlight and heat. Store below 35°C. Keep bags tightly closed. In the original sealed bags and kept at suggested storage conditions, the product can be stored for at least 2 years. Slight pH drop is possible over prolonged storage. In case of drop in pH, it is safe to use the material as long as the pH is  $\geq 7.5$ . Soft, easily breakable agglomerates may be formed on storage. Since the material is hygroscopic in nature, use the product within a week after opening the bag. During storage, to avoid lumping, stack not more than 7 bags one above the other and single pallet on ground or in rack. During storage, jumbo bags / fibre drums should not be stacked one above the other. Spills should be contained / collected and disposed off as per the regulations. Avoid ingestion and 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, seek adequate and timely medical attention.

Product Name	: <b>Galaxy 689</b>
Version	: 05
Date of issue	: 21.01.2014
TDS Updated by	: BB / AD
Authorised by	: NK

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