The Chemical Company

Product Datasheet

Texapon® N 70

Care Chemicals

General characterisation

Chemical description
Sodium Laureth Sulfate + 2 EO

Labeling information

INCI name(s)
Sodium Laureth Sulfate

Ingredient information

Ingredient	CASR-No.	EINECS/ELINCS-No.
Sodium Laureth Sulfate	68891-38-3	500-234-8

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Product properties

Appearance
Flowable paste, transparent to yellowish

Example of use
Owing to its outstanding detergency and cleansing quality Texapon® N 70 is used for the manufacture of liquid dishwashing and technical cleaning agents as well as liquid light-duty detergents.
Because of its good foam characteristic and the easy thickening with salt, the product is also suited as a basic surfactant for cosmetic cleansing preparations such as shampoos, shower gels and foam baths.

Texapon® N 70 is a highly concentrated sodium lauryl ether sulphate derived from natural fatty alcohols. Due to its high content of washing active substance, Texapon® N 70 is particularly suited for highly concentrated endproducts, or if raw materials with a lower water content are required.

Processing
When diluted with water, Texapon® N 70 shows gel structures which are typical of ether sulphates. After the addition of water, the viscosity first increases rather rapidly, and after a reduction of the active substance to a level below 30 %, it decreases considerably. Liquid, stable solutions are obtained up to 28 % of the active substance. At higher concentrations the product becomes pasty.
Texapon® N 70 has an extremely low salt content, and when diluted with water to the normal use concentration, it shows a very low viscosity. When sodium chloride and alkanolamides (Comperlan® types) are added, the viscosity can be adjusted accordingly.
In this way, the viscosity of diluted solutions of Texapon® N 70 with approx. 5 - 28 % washing active substance can be easily increased to the desired value.

If sodium chloride is used as a thickening agent, Texapon® N 70 can be incorporated into the formulation in the cold state if the following incorporation sequence is adhered to:
The required amount of sodium chloride has to be diluted in the smallest quantity of water that is absolutely necessary for obtaining a solution (preparation of a saturated table salt solution). This salt solution is added to the undiluted Texapon® N 70 whilst stirring, and stirring is continued until the mixture has become more fluid.

Subsequently, the remaining water can be added without difficulty.
If incorporation cannot be effected in this way, it is recommended that Texapon® N 70 be dissolved with hot water of approx. 80°C whilst stirring, and only then should other components be added.

As a general rule, sodium chloride should not be added in solid form, but in the form of an aqueous solution. Continous mixing of Texapon® N 70 with water is also possible without any difficulty, if the appropriate apparatus and equipment is available.

Characteristic values

The specifications stated in the paragraphs 'Quality control data' and 'Additional product descriptive data' finally and conclusively describe the properties of the product.

Quality control data
(Data which is used for quality release and is certified for each batch.)

Odor evaluation versus standard	corresponds to the standard	
Visual appearance versus standard	corresponds to the standard	
Anionic activity (MW 382)	68.0 - 73.0 %	Internal Method QC3602.0
1,4-Dioxane	<= 14 ppm	Internal Method 92002101
Unsulfated matter	<= 3.5 %	Internal Method 97006402
Color number Hazen (20 % sol.)	<= 25	DIN ISO 6271
pH value (3 %)	7.0 - 9.0	Internal Method 92000801

Additional product descriptive data
(Data which is proven statistically but not determined regularly.)

Sodium chloride	<= 0.1 %	DGF H-III 9 MOD.
Sodium sulfate	<= 1 %	DGF H-III 8A
Dry residue	71.0 - 76.0 %	Internal Method QP1076.0

Storage and transportation

Shelf life
12 months

Storage temperature
< + 30 °C

Storage conditions
In original sealed containers and protected from moisture.

Additional information
Texapon® N 70 should be protected against frost as the product becomes solid, however by carefully raising the temperature the product can be returned to its original state. At temperatures below +20°C flowability decreases, below 10°C pumping is not possible.
To make handling easier and for bulk transport the temperature of Texapon® N 70 can be raised to approximately 50°C for a short period without impairing the product quality. However prolonged storage should be at the lowest temperature possible to avoid any potential impairment.
To raise the temperature of Texapon® N 70 a warm water system with a maximum temperature of 60°C is recommended. Under no circumstances may saturated steam be used as this will cause irreversible damage to the product and storage tank.
Depending on the temperature, the ph value may decrease during storage and must be appropriately monitored by the customer. The product is not negatively influenced at a ph values above 4.0. Due to the high active content, the addition of a preservative is not necessary. As a consequence of storage or transportation, slight separations may occur which can be eliminated by stirring.

Stabilising additives / Auxiliaries
The Product is unpreserved

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