



Product Data Sheet

DEHYPON® 2555

General characterisation

Chemical description

Mixture of end-capped fatty alcohol polyglycol ethers and C8-C10 alkylpolyglucoside

Labeling information

INCI name(s)

Registrations

Ingredient	CASR-No.	EINECS/ELINCS-No.

Officially listed in / Quality conforms to

Product properties

Appearance

Clear, dark brown liquid

Example of use

Low-foaming nonionic surfactants are usually not soluble in highly alkaline liquid formulations but give a phase separation in e.g. 50 % liquid sodium hydroxide. Here DEHYPON 2555 exhibits its special features: DEHYPON 2555 is not only a surfactant with a high anti-foaming effect in the temperature range of 20°C to 90°C but also formulations can be prepared forming clear solutions in 50 % sodium hydroxide e. g. for CIP-cleaning.

In addition to this a few guide formulations:

1. Formulations for so-called "additives"

Formulation No.	1	2	3
Constituent			
(Indications in % by weight)			
Sodium gluconate	7.3	7.3	10.0
DEHYPON 2555	50.0	50.0	50.0
Bayhibit AM*	3.0	3.3	1.6
TURPINAL D 2	3.0	3.3	1.6
TURPINAL SL	3.0	3.3	1.6
Deionized water	33.7	32.8	35.2

* Bayer AG, Leverkusen

All these formulations ("additives") are stable in the temperature range of 5°C to 45°C.

Preparation of alkaline solutions 1 to 10 % by weight of these formulations 1, 2 und 3 are soluble in 99 to 90 % by weight of a 50 % liquid sodium hydroxide, e.g. 10 % of formulation 1 + 90 % of 50 % sodium hydroxide.

To obtain a clear solution attention has to be paid that 10 % e.g. of the formulation 1 is incorporated into 50 % sodium hydroxide u n d e r v e r y s l o w s t i r r i n g (or pumping).

If 10 % of formulation 1 are added quickly and without stirring to the liquid sodium hydroxide a cloudy solution will result.

Same applies to the formulations 2 and 3.

These guide formulations are stable at a temperature range between +5 to 45°C.

DEHYPON 2555 is a surfactant blend with high anti-foaming effect which is soluble in 50 % sodium hydroxide - in the presence of complexing agents such as e.g. gluconate.

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.)

Appearance conforms to standard
Odour conforms to standard

Water content (%)	15.5 - 17.5	DGF C-III 13 a
pH value (1 %)	6 - 7.5	DGF H-III 1
Hydroxyl value	360 - 400	DGF C-V 17 a

Hydrophilic nature:

Turbidity temperature (°C, BDG)	68 - 72	EN 1890 (DIN 53917)
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Additional product descriptive data

(Data which is proven statistically but not determined regularly.)

Active substance (%)	82.5 - 84.5	100 % minus % water
Density (g/cm ³ , 20°C)	1.039 - 1.048	DIN 51757 V4

Low temperature behaviour:

Pour point (°C)	0 - -11	DIN ISO 3016
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Storage and transportation

DEHYPON 2555 can be stored in sealed original containers below 40°C for at least 2 years.

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DEHYPON® 2555

