Technical Information

April 2014

WF-No. 3953

Dehyton® P CAW

® = Registered trademark of BASF

BASF
The Chemical Company

Chemical nature

Dehyton® P CAW is a Cocamidopropylamine Oxide.

PRD-No.*

30531726

* BASF's commercial product numbers.

Properties

Dehyton® P CAW is a slightly, yellowish clear liquid at room temperature and tends to form sediment.

Dehyton® P CAW	Unit	Value
Physical form		Liquid
Concentration	%	approx. 33
pH value (EN 1262, 5% in water)		approx. 6
Density* (DIN 51757, 23 °C)	g/cm³	approx. 1.0
Pour Point* (ISO 3016)	°C	approx. -2
Viscosity		
(EN 12092, 23 °C, Brookfield, 60 rpm)	mPa·s	approx. 30
(EN 12092, 40 °C, Brookfield, 60 rpm)	mPa·s	approx. 20
Surface tension** (EN 14370, 23 °C, 0.1%)		
in distilled water	mN/m	approx. 33
in 5% sulphuric acid	mN/m	approx. 30
in 4% caustic soda	mN/m	approx. 32
Wetting power* (EN 1772, 23 °C, amount of product required for immersion time of 100 s)	g/l	approx. 2.5
Foaming power* (EN 12728, 23 °C, 0.2%)		
in distilled water	cm³	approx. 1050
in potable water (Hardness approx. 2.7 mmol/l Ca^{2+}-ions)	cm³	approx. 750

* *These are average values from a representative sample of batches. They are not monitored on a continuous basis.*

** *Applying Harkins-Jordan correction.*

The above information is correct at the time of going to press. It does not necessarily form part of the product specification.

A detailed product specification is available from your local BASF representative.

Solubility

Solubility of Dehyton® P CAW
(10% in solvent at 23 °C)

Dehyton® P CAW	
Distilled water	+
Potable water (Hardness approx. 2.7 mmol Ca^{2+}-Ions/l)	+
Caustic soda, (5%)	+
Sulphuric acid, (5%)	+
Sodium chloride solution, (5%)	+
Isopropanol	O
White minera spirits	–
Xylene	–

+ = *Forms clear solution*
O = *Forms cloudy solution*
– = *Insoluble or sparingly soluble*

Dehyton® P CAW is compatible with anionic and nonionic substances such as other surfactants, and with dyes, protective colloids, thickeners and similar products with a molar mass in the upper range.

Mixtures of Dehyton® P CAW and cationic substances can precipitate and show other signs of incompatibility.

Dehyton® P CAW is compatible with electrolytes insofar that its surface activity is not impaired by hard water or heavy metal ions.

Storage

a) Dehyton® P CAW should be stored indoors in a dry place. Storage rooms must not be overheated.
b) Drums must be resealed each time they are opened.
c) The storage temperature should not be allowed to fall substantially below 20 °C. The pourpoint of Dehyton® P CAW also needs to be taken into account.
d) Dehyton® P CAW is a slightly, yellowish liquid at room temperature and tends to form sediment in the coldness. It becomes clear liquid at approx. 40 °C.
e) Liquid that has solidified or that shows signs of sedimentation should be heated to max. 50 °C and homogenized before it is processed. Please mix sufficiently prior to use.
f) Drums that have solidified or that have begun to precipitate should be reconstituted by gentle heating, preferably in a heating cabinet. The temperature must not be allowed to exceed max. 50 °C. Please mix sufficiently prior to use. This also applies if drums are heated by external electrical elements. Internal electrical elements should not be used because of the localized anomalies in temperature that they cause.
g) Dehyton® P CAW must be blanketed with nitrogen if it is stored in heated tanks (at 35 – 45 °C) to prevent it from coming into contact with air. Constant, gentle stirring helps to prevent it being discolored as a result of prolonged contact with electrical elements or external heating coils.

Materials

The following materials can be used for tanks and drums:

a) Stainless steel 1.4541 - AISI 321 stainless steel (X6 CrNiTi 1810)
b) Stainless steel 1.4571 - AISI 316 Ti stainless steel (X6 CrNiMoTi 17122)
c) Stainless steel 1.4306 - AISI 304 L stainless steel (X2 CrNi 1911)

Shelf life

Provided it is stored properly and drums are kept tightly sealed, Dehyton® P CAW has a shelf life of at least 12 months in its original packaging.

Safety

We know of no ill effects that could have resulted from using Dehyton® P CAW for the purpose for which it is intended and from processing it in accordance with current practices.

According to the experience that we have gained over many years and other information at our disposal, Dehyton® P CAW does not exert harmful effects on health, provided it is used properly, due attention is given to the precautions necessary for handling chemicals, and the information and advice given in our safety data sheets are observed.

Please refer to the leastest Safety Data Sheet for detailed information on product safety.

Note

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