

Technical Information

SURFYNOL® AS 5160

Composition

SURFYNOL® AS 5160 is a solution of sodium diisooctyl sulfosuccinate in ethanol/water.

Physical properties

Appearance (20 °C)	nearly colourless, clear liquid
Active content	73 – 76 %
pH value (1 %)	5 – 7
Active content (Hyamine, MG = 450)	min. 72 %
Color (Hazen)	max. 100
Surface tension (0.25 % in water)	27.3 mNm

Application fields

SURFYNOL® AS 5160 is used as emulsifier and wetting agent in the production of polymer dispersions and formulations based thereon.

Benefits

SURFYNOL® AS 5160 is an anionic surfactant, miscible with non-ionic, amphoteric and other anionic products.

SURFYNOL® AS 5160 has good oil solubility and antistatic properties.

It is a highly effective emulsifier with very good wetting properties.

Dosage/Handling

SURFYNOL® AS 5160 is a liquid, easy to handle product. It is soluble in water at low concentrations (approx. 10 g actives/l). Water solubility can be improved by combination with non-ionic emulsifiers or hydrotropes. In order to avoid hydrolysis, the pH value of the aqueous systems containing SURFYNOL® AS 5160 has to be set in the neutral pH range (5 – 7).

Depending on the application in question the required dosage may vary over a wide range. If questions arise regarding detailed information on dosage and handling we refer to the respective technical information.

Food contact status**FDA Regulation**

SURFYNOL® AS 5160 may be used in compliance with

21 CFR 175.105 (Adhesives),

21 CFR 175.125 (Pressure-sensitive adhesives),

21 CFR 175.300 (Polymeric coatings),

21 CFR 176.170 (Components of paper and paperboard in contact with aqueous and fatty foods),

21 CFR 176.180 (Components of paper and paperboard in contact with dry food) and

21 CFR 178.3400 (Emulsifiers and/or surface-active agents)

European Regulation 10/2011 and amendments

SURFYNOL® AS 5160 can be used in accordance with EU Regulation 10/2011.

Recommendations of the BfR

SURFYNOL® AS 5160 complies with the XIVth BfR Recommendation.

Polymer Dispersions that comply with the XIVth Recommendation may be further used as production auxiliary according to the BfR Recommendation XXXVI under B. I. 10.

GB 9685–2016

SURFYNOL® AS 5160 may be used in coatings, paper and adhesives without any limitation.

Additional SURFYNOL® AS 5160 may be used up to 3 % in PE, PP, PS, AS and ABS.

Registration status

The ingredients of SURFYNOL® AS 5160 are listed in the following chemical inventories:

EINECS, TSCA, DSL, ENCS, AICS, ECL, PICCS, IECSC, NZIOC and ECS.

Storage stability

SURFYNOL® AS 5160 as delivered can be stored in closed drums for 12 months.

SURFYNOL® AS 5160 should not be exposed to extremes of heat and frost.

Prolonged storage in cold conditions may result in cloudiness or crystalline precipitation. A clear and homogenous material can be achieved by gentle warming and stirring without affecting product quality. The tanks have to be explosion-proof.

We want to draw your attention to the hazards of the solvent ethanol comprised in SURFYNOL® AS 5160, a flammable and explosive liquid.

Packaging

200 kg drums (4 drums/pallet)
1 000 kg containers

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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