

Technical Information

REWOPOL® SB FA 50

Composition

Disodium fatty alcohol ether-sulphosuccinate.

Physical properties

Appearance (20 °C)	nearly colorless, clear liquid
CAS No.	68954-91-6
Setting Point	-5 °C
Density (20 °C)	1.09 g/ml
Molecular Formula (average)	C ₂₄ H ₄₄ O ₁₁ Na ₂ S
Molecular Weight (average)	578 g/mol
Solids content	30 – 32 %
pH value (tel quel)	5.2 – 5.6
Color (Hazen)	max. 150
CMC	0,1 %
Surface tension at CMC	30 mN/m
Viscosity (20 °C, Brookfield)	40 – 100 mPas

Application

Emulsifier for the production of emulsion polymers.

REWOPOL® SB FA 50 is used as emulsifier for the production of emulsion polymers, especially for:

- vinylacrylate copolymer
- acrylate polymers and copolymers
- vinylacetate polymers and copolymers

REWOPOL® SB FA 50 can be used as primary or secondary emulsifier in emulsion polymerization. As secondary emulsifier it can be used in combination with e. g. TEGOMER® DA 646

Benefits

REWOPOL® SB FA 50 is an APE free anionic surfactant with good emulsifying and dispersing properties. Even at low use levels REWOPOL® SB FA 50 may be used to produce latexes with small particle sizes.

REWOPOL® SB FA 50 enables the production of high solid latexes. REWOPOL SB FA 50 is acting by steric as well as charge stabilization what results in latexes with very good mechanical and high electrolyte stability.

Typical Formulations for Emulsion Polymerization

Vinylacete

Water I	143.00 g
REWOPOL® SB FA 50	18.10 g
Ammonium peroxy disulfate I	0.75 g
Water II	8.00 g
Sodium acetate trihydrate	1.75 g
Vinylacetate	200.00 g
Ammonium peroxy disulfate II	0.25 g
Water III	2.00 g

Styrene Butyl Acrylate

Water I	166.35 g
REWOPOL® SB FA 50	13.27 g
Sodium peroxy disulfate I	0.40 g
Styrene	88.52 g
Butyl acrylate	88.52 g
Acrylic acid	4.00 g
Sodium peroxy disulfate II	0.40 g
Water II	50 g

Ethyl Hexyl Acrylate

Water I	170.00 g
REWOPOL® SB FA 50	7.42 g
TEGOMER® DA 646	1.84 g
Ethyl acrylate	72.00 g
Methyl methacrylate	76.00 g
Butyl acrylate	27.00 g
Acrylic acid	5.00 g
Potassium peroxy disulfate	1.00 g
Water II	100.00 g

Dosage/Handling

REWOPOL® SB FA 50 is an easy to handle, pourable liquid.

Dosage depends on the application and specific formulation in use, as well as on the required performance.

Food contact status

REWOPOL® SB FA 50 may be used in compliance with the following recommendations/regulations under the prescribed conditions of use:

BfR XIV A.2.d	plastic dispersions
FDA 21 CFR 178.3400	emulsifier
FDA 21 CFR 175.105	adhesives

Registration status

The components of REWOPOL® SB FA 50 are listed in the following chemical inventories:

EINECS, TSCA, DSL, AICS, ECL, PICCS, IESCS

Based on the submitted information of our raw material suppliers we can confirm, that REWOPOL® SB FA 50 is compliant with EC Regulation 1907/2006 (REACH).

Storage stability

At room temperature REWOPOL® SB FA 50 is stable for 6 months.

When REWOPOL® SB FA 50 is stored at 35 – 40 °C the stability is reduced and it should be processed within 1 month. Additionally, it should be kept at frost free conditions.

Packaging

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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