

TECHNICAL DATA SHEET

SPROX 21

Description:

A mixture of Disodium salt of an organic sulfinic acid derivatives. Suitable for reduction of residual monomer as redox pair in post polymerization.

Key features and Benefits

- Decrease of VOC
- Decrease of residual monomer content.
- No release of formaldehyde or any other VOC.
- Faster reaction.
- Improved properties for end product polymer and lattices.
- Increased reactivity.
- No discoloration of latex.

Applications

- SPROX 21 is typically applied in solution at a concentration of 3-5%.
- SPROX 21 can be used in redox systems in combination with all commonly used oxidizing agents.
- SPROX 21 should be used at reaction temperatures between 40°C and 65°C.
- SPROX 21 is applicable over a broad range pH range. The optimal range is 4 to 6.

Physical properties

Appearance	White powder free from visible foreign particle
Odor	Product specific odor
Solubility in Water	Approximately 200 g/l (20°C)
Melting Point	>200°C decomposition
Acid Resistance	Decomposition
Alkaline Resistance	Good
H.S. Code	28 31 10

Application Fields

<u>Polymers</u>	<u>End Use</u>
Vinyl acetate ethylene (VAE)	Binders for paints and coatings
Polyvinyl acetate (PVAC)	Building and construction chemicals
Vinyl acetate – acrylic and maleic copolymers	Polymers for printing inks
Acrylic and styrene acrylic copolymers (SA)	Adhesives
Polyacrylate	Polymers for paper coating
Polycarboxylate ethers (PCE)	Leather auxiliaries
Acrylics and acrylics ester latex (ACM)	Latex foams
Carboxylated latex (X-SBR, X-NBR)	Thickening agents
Polyvinyl chloride (E-PVC)	Polymeric surfactants
Acrylonitrile / Butadiene / Styrene terpolymer (ABS)	Flocculants for water treatment
Special copolymers	Non wovens

Food contact notification

SPROX 21 has FDA and compliant with the following chapters:

§175.105 – Adhesives

§177.2600 – Rubber articles for repeated use

§176.170 – Paper and board / aqueous and fatty food

§176.180 – Paper and board / dry food

International Listings

SPROX 21 is listed in the national inventories of all major markets. For further details, please contact the product manager.

Storage and Stability

SPROX 21 has a significantly increased reactivity compared to other reducing agents, resulting in a higher sensitivity to ambient moisture. In unopened packaging Shiva Performance Limited guarantees a shelf life of at least 12 months if stored properly (28°C / dry). In case of opened packaging, especially laboratory samples, should be closed tightly after use and stored under cool and dry conditions.

The stability of a SPROX 21 solution decreases with lower concentration. A solution with 5% SPROX 21 content should be used within some days. Generally, it is recommended to use only fresh solutions.

Health and Safety

According to 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work "SPROX 21" is not defined as a chemical agent which meets the criteria for classification as a dangerous substance. For this reason, an assessment of the risks is required. However, this does not a priori exclude that SPROX 21 will fall within the definition "hazardous chemical agent" according to Article 2 b of 98/24/EC. Therefore, the actual situation at the workplace has to be determined.

Further information is given in the corresponding safety data sheet which is available on request. In any case the standard industrial safety and hygiene procedures when handling chemicals have to be observed.

The remarks are deducted from the European legal system. Deviating or additional regulations in other legal systems must be observed accordingly when using the product. Safety data and information can be derived from the current Material Safety Data Sheet.

Standard Packaging

SPROX 21 is packed in 25kgs bags. The product is supplied in white powder. For super sacks / larger packaging, please contact the product manager.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of or product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties; nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and exiting laws and legislation are observed.