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TECHNICAL INFORMATION

Reducing Agents

Bruggolite®FF6 M

Reducing Agent for emulsion polymerization

General

Bruggolite®FF6 M is the first new derivative of sulfinic acid over a period of almost 90 years.

Bruggolite®FF6 M is invented, patented, registered, manufactured and marketed by BrüggemannChemical.

Bruggolite®FF6 M is superior to all other reducing agents commonly used in the redox initiation of emulsion polymerizations.

Bruggolite®FF6 M is successfully used by customers worldwide for all areas of emulsion polymerization.

Bruggolite®FF6 M superior performance offers the potential to improve production processes as well as end-products.

- Increased Reactivity
- Faster Reactions
- Higher Safety due to Highest Reproducible Performance
- Decrease of VOCs
- Decrease of Residual Monomers
- Technical Advantages in the Polymerization Process
- Improved Properties for End Product Polymers and Latices
- No Discoloration of latex
- No Release of Formaldehyde or any other VOC
- Applicable over a wide pH range (acidic and basic)

Properties

Chemical characterization	Sodium salt of an organic sulfinic acid derivative
Appearance	White dustfree microgranules
Melting Point	> 200 °C decomposition
Solubility in water	125 g/l (20°C)
Alkaline resistance	Good
Acid resistance	Decomposition
Odor	Product specific odor
HS-Code	28 31 10

Health and Safety Data

Safety data and information can be derived from the current Material Safety Data Sheet

Application of Bruggolite®FF6 M

Bruggolite®FF6 M can be used in redox system in combination with all commonly used oxidizing agents.

Bruggolite®FF6 M should be applied in solutions of 3-5% concentrations.

Bruggolite®FF6 M should be used at reaction temperatures below 70°C. 60-65°C is optimal.

Bruggolite®FF6 M is applicable over a broad pH range. The optimal range is pH 4 to 6.

Food Contact Notification

Bruggolite®FF6 M has the food contact notification of the FDA with respect to 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

Bruggolite®FF6 M is listed in the national inventories of all major markets. For further details please contact the responsible product manager.

Storage and Stability

Bruggolite®FF6 M has a significantly increased reactivity compared to other reducing agents, resulting in a higher sensitivity to ambient moisture.

In unopened packaging BrüggemannChemical guarantees a shelf life of at least 12 months if properly stored (25°C / dry).

Bruggolite®FF6 M must not be stored together with oxidizing substances or acids.

Opened packaging, especially laboratory samples, should be closed tightly after use and stored under cool and dry conditions.

The stability of a Bruggolite®FF6 M solution decreases with lower concentration. A solution with 5% Bruggolite®FF6 M content should be used within some days, a 10% solution within one or two weeks. Generally only fresh solutions are recommended to be used.

Standard Packaging and Product Form

Bruggolite®FF6 M is packed in 25 kg PE bags. Standard delivery form is 20 bags/500 kg on a CP-1 pallet.

Bruggolite®FF6 M is delivered in a microgranular form that is absolutely free flowing and dust free.

For order volumes smaller than 500 kg please contact the responsible product manger.

Contact

For further information about Bruggolite®FF6 M please contact:

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