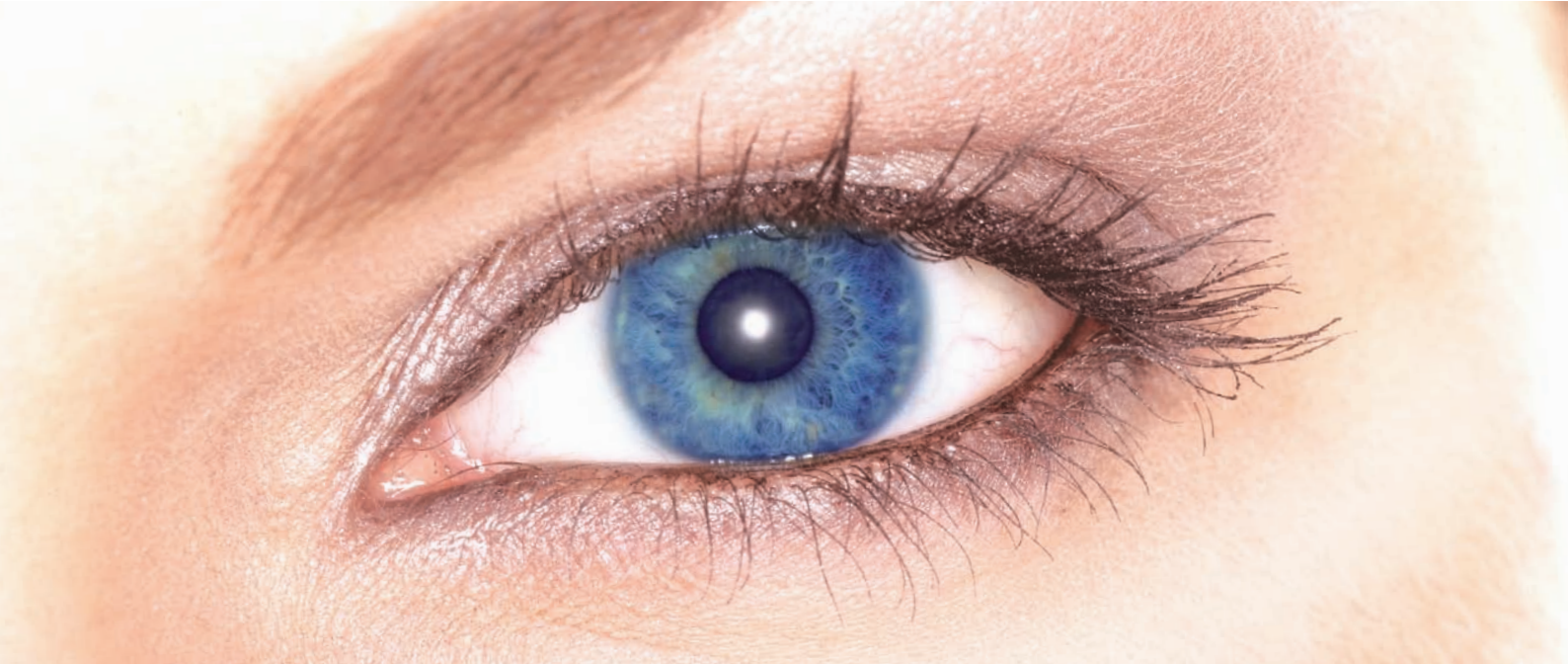




Spotlight Gastroenterology

Know ...



... How!

Gastrointestinal System – Centre of Body & Health

In this Spotlight we focus on sensible solutions for the gastrointestinal system. With our product portfolio and individual, application-

related technical advice we support you to develop contemporary dosage forms.

DOW CORNING®

- Simethicone Antifoam & Emulsion

AVESTA

- Macrogol

Being the centre of our body the gastrointestinal system is a highly organised and sensitive network of different organs. While nutrition and digestion directly determine our well-being they are not the only factors which

cause stomach and intestinal problems thus having impacts on our immune system. Complaints can vary from stomach pains, foam building, heartburn, dyspepsia and constipation.

LifeScience – Pharma

DOW CORNING

DOW CORNING® Antifoams & Antifoam Emulsions

Silicones have a history of more than 50 years of safety and efficiency in healthcare related applications and polydimethylsiloxanes are globally recognized both for their proven bio-compatibility as well as for being one of the most tested materials for their safety. Silicones are used in many different registered pharmaceutical products, both as actives and excipients.

Silicones are well known for their use as anti-foams to control or eliminate foam, and the use of simethicone in gastroenterology is well established.

Simethicone Compounds, a blend of polydimethylsiloxane and silicone dioxide, have been specifically designed for use in medical and

pharmaceutical applications requiring foam suppression or inhibition.

Simethicone Emulsions are normally highly effective and versatile silicone defoamers which can be used as supplied or further diluted with water. Both are used as excipients, active pharmaceutical ingredients and process aids in pharmaceutical applications.

To assure consistent quality for use as pharmaceutical ingredients, DOW CORNING brand antifoam products are manufactured, packaged, and tested at the Healthcare Industries Material Site utilizing US FDA GMP guidelines for Active Pharmaceutical Ingredients (APIs).

Product Profiles: Antifoam Compound

	DOW CORNING® Q7-2243 LVA, Simethicone USP	DOW CORNING® Antifoam M Compound
Description:	Low volatile silicone antifoam Mixture of a low-volatile polydimethylsiloxane (PDMS) fluid and silicone dioxide	
Typical Applications:	Foam control in medical and pharmaceutical applications Prescription / OTC / Medical Device Antiflatulents	
Regulatory Status:	Simeticone EP, Simethicone USP	Simeticone EP
	Certificate of Suitability (CEP) Good Manufacturing Practices (ICH Q7) Regulatory Dossier	

Product Profiles: Antifoam Emulsion

	DOW CORNING® Q7-2587, 30% Simethicone Emulsion USP	DOW CORNING® 7-9255, 30% Simethicone Emulsion USP
Description:	Emulsified Simethicone containing 30% Simethicone Compound	
	Composition: 30% Simet(h)icone EP/USP, emulsifier, stabiliser, preservatives	Composition: 30% Simethicone USP, emulsifier, preservatives
Typical Applications:	Foam control in medical and pharmaceutical applications Prescription / OTC / Medical Device Antiflatulent	
Regulatory Status:	Simethicone Emulsion USP (based on Simet(h)icone EP/USP or Simethicone USP) Good Manufacturing Practices (ICH Q7) Regulatory Dossier	

LifeScience – Pharma



AVESTA Macrogol

Polyethylene glycol (PEG), as pharmaceutical substance well known under the name **Macrogol**, is used as an osmotic-type laxative to treat constipation or to clear the colon before colonoscopy. Macrogol is the international non-proprietary name determined by the World Health Organization.

Polyethylene glycols are polymers of ethylene oxide with the following chemical structure:
 $\text{HOCH}_2\text{-}[\text{CH}_2\text{-CH}_2\text{-O}]_n\text{-CH}_2\text{OH}$
 (n: average number of EO-units).
 Within the pharmaceutical industry the number

included in the names of polyethylene glycols indicates the average molecular weight.

Macrogol 3350 / Macrogol 4000, widely used as active ingredients, have the ability to bind a defined amount of water, which is transmitted immediately into the large intestine.

There it softens the stool and increases the stool volume, which leads to a stimulation of intestinal peristalsis and increases the number of bowel movements.

Product Profile: Polyethylene glycol - Macrogol

AVESTA Macrogol

Description: Polyethylene glycol (PEG) – Macrogol 3350 / 4000

Typical Applications: Active for Laxatives

Regulatory Status: Macrogol EP/USP
 Good Manufacturing Practices (ICH Q7)
 Regulatory Dossier (E-DMF)

LifeScience – Pharma

Biesterfeld Spezialchemie GmbH

Founded in 1997, Biesterfeld Spezialchemie GmbH is a pan-European, rapidly growing distributor of

specialty chemicals. Our partners benefit from our application expertise and market-knowledge.

Pharma - Focusing on Expertise

Our strengths in the fields of pharma are pharmaceutical actives and excipients. Another focus are silicones for medical applications and a comprehensive range of silicone tubings.

Our application expertise, high quality standards, trustworthy practices and reliability combined

with international sourcing from qualified suppliers provides solutions to your specific needs and requirements.

The complete product overview can be downloaded from our website:

www.biesterfeld-spezialchemie.com

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Please do not hesitate to contact us for any further information or suggestion.

Your bridge to ...



... chemical specialties in Europe

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