

Chemical nature

The Flocculant Biomicrogel® BMG-C2 product series (hereinafter BMG-C2) is a non-toxic water-soluble polysaccharide derivative.

Physical Properties

Aggregate state	Transparent solution
Ion charge	Amphoteric
Viscosity of a 0.5% aqueous solution, no more than*	700 – 720 MPa*s
pH value* for the 0.5% aqueous solution	5.0 – 9.0

* Dynamic viscosity according to Brookfield.

Operating principle

Flocculant particles enlarge the coagulated emulsified petroleum products, fats and POL and convert them into hardly soluble sediment which is extracted from the solution by settling or filtration.

Application areas

BMG-C2 is designed to separate stable oil contaminated, fat contaminated and water-oil emulsions at a concentration of contaminants from 1 to 500 mg/l in systems of water treatment and clean-up of industrial and storm drains, produced water, etc.

Advantages

- Non-toxic and eco-friendly
- 100% biodegradable
- Localized impurities are easily removed from water by filtration or settling
- Operating temperature varies from 0°C to 85°C
- Operating pH range varies from 3 to 8
- Do not cause corrosion when in contact with the materials used

Application

BMG-C2 is used as a 0.5% aqueous working solution, BMG-C2 should be evenly distributed in the treated medium by stirring or using the turbulent flow of a medium. The separation is carried out with suitable technological equipment. Depending on the composition of the treated water, it can be used in conjunction with other reagent (coagulants, polyacrylamides, alkalis, acids, etc.).

The Biomicrogel Group is ready to provide recommendations on the necessary preparation and dosage of BMG-C2.

Preparation of the working solution

Ready for dosing. If the reagent is supplied as a concentrated solution, dilute it with water to a working concentration with suitable technological equipment.

The information presented in this document is based on our knowledge and experience as of the current moment.

This information is not about the agreed contractual qualities of the products. Due to the fact that a large number of aspects may affect the processing and using our products, it does not exempt the user from the need to conduct his own experiments. The agreed contractual qualities are based solely on the information provided in the Technical Data Sheet at the moment of passing the risk on to the consumer. Any descriptions, drawings, photographs, data, proportions, weights, etc. specified in this document can be changed without prior notice. The consumer is obliged to ensure compliance with all property rights and current legislation.

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This data sheet will be considered invalid if it is replaced with a later version.

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Dosage

Approximate dosages of BMG-C2 are 1-5 mg/dm³ measured by dry matter or 0.2-1.0 ml/l (0.2-1.0 l/m³) measured by treated water.

Concentrations

Do not exceed 0.5%.

Packaging

BMG-C2 is supplied in the form of a concentrated solution BMG-C200.5 in canisters of 25 liters or JBC containers.

Working solution storage

The prepared solution should be used within 30 days.

Storage

The product must be stored in a cool, dry place. The product should be stored at a negative temperature with subsequent smooth defrosting. All protective packaging should be retained before use. The guaranteed shelf life of the packaged product is 12 months as from the date of production.

Safety and technical documentation information

Expert conclusion №66-20-18/14-02-5646-2019 dated 18.10.2019. The product is not subject to state registration.

A Material Safety Data Sheet (MSDS) is available on request. TU 20.16.59-002-20629059-2019 "Flocculant Biomicrogel®. Technical specifications".

Contacts

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