

Chemical nature

The Coagulant Biomicrogel® BMG-P2 series of coagulants (hereinafter BMG-P2) are non-toxic water-soluble polymers based on natural polysaccharides.

Physical Properties

Aggregate state	Powder
Bulk density	0.8 g/cm ³
Ion charge	Amphoteric
pH value*	4.0 – 5.0
Viscosity, MPa*s**	170 – 180

* 2 % aqueous solution,

** Dynamic viscosity according to Brookfield

Operating principle

The reagent binds (encapsulates) emulsified particles of petroleum products, fats, fuels and lubricants, coolants and forms stable insoluble compounds. On further processing of the compounds an insoluble sediment is formed and it can be removed from the water by filtering or settling.

Application areas

BMG-P2 is designed to separate stable oil-containing, fat-containing, water-oil emulsions at a concentration of contaminants from 1 to 10000 mg/l in water treatment systems and clean-up of industrial and storm drains, bottom water, coolants, and etc.

Advantages

- Non-toxic and eco-friendly
- 100% biodegradable
- The fast chemical reaction with petroleum products, fats and POL
- Encapsulated petroleum products, fats and POL are easily removed from the water column and its surface
- Operates within a broad PH range (from 2.8 to 8.0.)
- BMG-P2 can be recovered from collected petroleum products, various fats and POL, and returned to the technological cycle, the liquid solution of the coagulant is reusable as well

Application

- BMG-P2 is used as a 2% aqueous working solution.
- BMG-P2 is dosed before the clean-up stage (before cleaning equipment)
- BMG-P2 should be evenly distributed in the treated medium by stirring or using a turbulent flow of the medium. The separation is carried out with suitable 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-P2.

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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Consumption

In terms of the equivalent amount of the main substance, the consumption of BMG-P2 is:

- For Industrial and storm drains, bottom water: and etc. 20 – 60 g/m³;
- For coolant processing: 200 g/m³.

Preparation of the working solution

Dilute BMG-P2 in water with suitable technological equipment that allows making a homogeneous solution.

The prepared solution should be used within 7 days.

Packaging

BMG-P2 is supplied in the form of:

- free flowing powder in bags of 25 kg;
- as a 2% working solution in JBC containers.

Storage

The product must be stored in a cool, dry place before use

All protective packaging should be retained.

The guaranteed shelf life of the packaged product is 36 months as from the date of production.

After opening the package, the prepared solution should be used within 7 days.

Safety and Technical Documentation Information

State registration certificate

№RU.66.01.40.008.E.000166.08.18 dated 16.08.2018.

Material Safety Data Sheets (MSDS)

RPB №20629059.20.54977 dated 09.01.2019

TU 20.59.59-008-20629059-2018 “Coagulant Biomicrogel®.

Technical specifications”.

Contacts

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