

Technical Information

TEGO® Coagulant 4720

TEGO® Coagulant 4720 is based on polyfunctional non-ionic ingredients and may be used for heat sensitization of natural and synthetic latex.

Physical properties

Appearance	yellowish, slightly cloudy
Active content	100 %
Density (25 °C/77 °F)	approx. 1.03 - 1.05 g/cm ³
Viscosity, dynamic (25 °C/77 °F) DIN 53015 Höppler)	1 200 - 9 000 mm ² /s
Cloud point (4 % aqueous solution)	approx. 40 °C/104 °F
pH-value (25 °C/77 °F)	8 - 11 at 40 g/l water
Solubility	completely soluble in cold water

Application

TEGO® Coagulant 4720 may be used for heat sensitization of natural and synthetic latex for various applications. By varying the concentration the sensitization temperature can be adjusted from approx. 40 °C to 50 °C (104 °F to 122 °F); spontaneous coagulation is observed at the adjusted temperature.

Benefits

The use of TEGO® Coagulant 4720 has no negative impact on the mechanical properties of the produced latex articles. The addition of TEGO® Coagulant 4720 does not influence the stability of the latex below the sensitization temperature

However, we recommend rapid processing of the treated latex and to secure storage temperatures below 30 °C (85 °F).

Dosage/Handling

The required dosage may vary over a wide range depending on the desired sensitization temperature and various process parameters, such as type of latex (polymer type, emulsifier, solid content), type and concentration of other components, etc. We therefore recommend to evaluate the required dosage in suitable lab tests. Generally speaking a concentration between 0.1 and 1.0 % TEGO® Coagulant 4720 should be sufficient.

For an easier handling we recommend to apply TEGO® Coagulant 4720 from an aqueous pre-dilution (10 to 30%). By preparation of the dilution stir until a clear solution is obtained and no concentrated product is sticking on the bottom of the dilution container.

Such dilutions are designed for immediate use and should not be stored.

Registration status

The components of TEGO® Coagulant 4720 are listed in the following chemical inventories:

EINECS, TSCA, IECSC

Based on the submitted information of our raw material suppliers we can confirm, that TEGO® Coagulant 4720 is compliant with EC Regulation 1907/2006 (REACH).

Storage stability

TEGO® Coagulant 4720 may be stored in closed containers for at least 12 months.

TEGO® Coagulant 4720 should be used as soon as possible after first opening. Contamination and environmental influence of water should be avoided.

Packaging

50 kg steel drum (300 kg each pallet)

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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