

TEGO® IS 5458

Composition

TEGO® IS 5458 is a preparation of emulsifiers for the inverse emulsion polymerisation.

Physical properties

Appearance	Turbid, yellow liquid
Viscosity	Approx.. 1 000 – 1 500 mPas
Active content	96 %
Density	Approx.. 1 g/cm ³
Flash point	> 100 °C

Benefits and Application fields

With TEGO® IS 5458 it is possible to produce water-in-oil emulsions with difficult to emulsify high molecular weight paraffinic oils.

The paraffinic oil can be a highly viscous oil with low polarity or a low aromatic mineral oil. The aqueous phase therefore may be prepared of water and low ionic solutions.

TEGO® IS 5458 is used as primary emulsifier in inverse emulsion polymerization processes to manufacture water soluble polymers e. g. for water treatment, mining and paper additives.

TEGO® IS 5458 allows the production of high polymer content emulsions with fine particle size distribution.

By using TEGO® IS 5458 no gel formation will occur.

Dosage & Handling

Depending on the application in question the required dosage may vary over a range of 2 to 10 % w/w of surfactant on disperse phase. Suitable screening tests are therefore recommended.

The surfactant is usually added to the oil phase and dissolved under agitation.

To produce stable monomer emulsions it is necessary to add the disperse phase slowly to the continuous phase under gentle stirring and afterwards high shear is needed to homogenize the emulsion.

Registration status

TEGO® IS 5458 is listed in following chemical inventories:

EINECS, TSCA, NDSL, AICS, IECSC

Storage stability

TEGO® IS 5458 as delivered can be stored in closed containers for 12 months at room temperature.

Exposure to frost should be avoided.

Packaging

900 kg container

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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Trademark notice and legal notice

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