

TAGAT® PO 30

Product description

TAGAT® PO 30 is a non-ionic, non-alkoxylated emulsifier based on Polyglyceryl-3 Oleate.

Physical properties

HLB (± 1)	5
Form	liquid
Appearance (25 °C)	clear
Colour	yellow
Acid value	≤ 3.00
Saponification value	150 - 170 mg KOH/g
Hydroxyl value	80 - 130 mg KOH/g

Application

TAGAT® PO 30 can be used in various industrial applications in which a growing demand of safer and more ecological friendly additives is required.

TAGAT® PO 30 is applicable in intermediate HLB systems as primary emulsifier for water-in-oil emulsions.

In combination with hydrophilic emulsifiers (e. g. TAGAT® V 20 or TEGO® STO 85 V), TAGAT® PO 30 can be applied as co-emulsifier for water based (emulsifiable) lubricants.

The amphiphilic character of TAGAT® PO 30 allows its use for a variety of further functions such as solubilizer, spreading agent, lubricating, anti-misting, etc.

Properties / Benefits

TAGAT® PO 30

- is an oleic acid ester of a selected polyglycerol. The molecular structure of this emulsifier is similar to natural fats
- belongs to the group of polyglycerol esters of edible fatty acids, a class of substances which is also used in food industry
- is less volatile compared to corresponding glycerides
- exhibits a better oxidation and a higher thermal stability than glycerol esters or polysorbates
- may surpass interfacial properties to those of polysorbates
- represents an emulsifier based on raw materials derived by 100 % from vegetable sources
- has excellent toxicological and ecological properties (water hazard class = 1)
- does not require any hazard warning labels in accordance with GHS
- is biocompatible and biodegradable
- has good dermatological properties (no skin irritation)

Dosage / Handling

TAGAT® PO 30 can be applied in a wide range of different applications. Therefore the dosage level can vary, in particular in dependence on relation to the intended functionality.

Recommendations about dosage and handling could be given on request.

Food contact status – FDA regulations

TAGAT® PO 30 may be safely used as an emulsifier in food and is listed as an approved food additive according to 21 CFR 172.854. It can be used in any indirect food contact applications, including use as a component in lubricants with incidental food contact according to 21 CFR 178.3570.

As with any additive, the amount used should be the minimum required to accomplish the desired technical effect.

Registration status

The ingredients of TAGAT® PO 30 are listed in the following inventories:

EINECS, TSCA, DSL, AICS, ENCS, TCCL, PICCS and China

Storage stability

In original sealed containers TAGAT® PO 30 can be stored at temperatures below 40 °C for at least 1 year.

Packaging

190 kg plastic drums
Pallet size 4 x 190 kg = 760 kg

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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