

# TAGAT® V 20

## Product description

TAGAT® V 20 an ethoxylated castor oil oleate, is a non-ionic emulsifier.

## Physical properties

HLB (± 1)	8.4
Form (25 °C)	liquid
Appearance (25 °C)	clear
Color value acc. to Hess-Ives	max. 30
Acid number	max. 7 mg KOH/g
Saponification number	100 – 120 mg KOH/g
Hydroxyl number	43 – 53 mg KOH/g
Water	max. 1 %

## Application

The low foaming emulsifier TAGAT® V 20 is used in a wide range of applications such as

- Metal working fluids (MWF)
- Concrete release agents
- Textile auxiliary formulations
- Pulp and paper defoamers

In the case of metalworking application, TAGAT® V 20 is mainly used for the formulation of environmentally friendly fluids based on vegetable (e. g. rape seed oil) and synthetic ester oils (e. g. trimethylol propane trioleate), as well as combinations of these oils with mineral oils.

If TAGAT® V 20 is used with other emulsifiers e. g. alcohol ethoxylates, for the formulation of metalworking fluids, we recommend a dosage of 3 to 9 %.

## Properties / Benefits

TAGAT® V 20 has excellent emulsifying properties and ensures the spontaneous formation of finely dispersed, stable oil-in-water emulsions (o/w). This allows in general a reduction of the total emulsifier content which is necessary for the fluid emulsification.

Since TAGAT® V 20 is an emulsifier based on raw materials derived from vegetable oils, it exhibits benign properties and hence does not carry a risk phrase:

- TAGAT® V 20 has good toxicological and ecological properties (water hazard classification = 1)
- TAGAT® V 20 does not require any hazardous classification in accordance with EG directives/ German regulations on dangerous substances
- TAGAT® V 20 has good dermatological properties (no skin irritation)

## Dosage / Handling

If TAGAT® V 20 is used as sole emulsifier, 10 to 15 % based on total oil content will be sufficient to obtain stable emulsions. Control of an adequate HLB value is necessary and may require additional surfactants, such as TEGIN® O V.

If TAGAT® V 20 is used in combination with other surfactants (e.g. alcohol ethoxylates) for the formulation of metalworking fluids (MWF), we recommend a dosage of 3 – 9 %.

Basic guide recipes and formulating hints are available upon request.

### Listing status

The ingredients of TAGAT® V 20 are listed or exempted in the following chemical inventories:

EINECS, TSCA (polymer exemption), DSL, ENCS, ECL, ECS, PICCS, CHINA, AICS and NZIOC

### Storage stability

In originally sealed containers TAGAT® V 20 can be stored at temperatures below 40°C for at least 1 year.

### Packaging

4 x 200 kg drums (full pallet)  
1 000 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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