

Product Specification

REWOCOROS® AC 100 US

Product description

REWOCOROS® AC 100 US is a modified fatty acid monoethanol amine (MEA) condensation product.

Physical properties

Appearance 20 °C	brown, clear liquid
Amine value	180 – 195 mg KOH/g
Acid value	25 – 30 mg KOH/g
Water content	max. 2 %
Colour to Gardner	max. 12.0
Solubility	water: dispersible mineral oils: soluble after addition of non-ionic surfactants or solubilizer

Application

REWOCOROS® AC 100 US is used as a corrosion inhibitor and co-emulsifier for water-based metal working fluids (MWF).

We highly recommend the use of REWOCOROS® AC 100 US for semi-synthetic MWF in combination with non-ionic emulsifiers and boric acid-amine-blends. This will result in clean MWF and systems that are highly biostable.

Furthermore, REWOCOROS® AC 100 US can be used to formulate soluble MWF along with sodium sulfonates.

To solubilize REWOCOROS® AC 100 US in mineral oils, we recommend the use of low ethoxylated C₁₆/C₁₈ fatty alcohols for paraffinic oils and higher ethoxylated C₁₆/C₁₈ fatty alcohols for naphthenic oils.

Properties/Benefits

- REWOCOROS® AC 100 US provides very good corrosion protection in different water based MWF even under hard water conditions.

- REWOCOROS® AC 100 US is free of secondary amines. During the use of REWOCOROS® AC 100 US, the formation of N-Nitrosodiethanolamine (NDELA) could not be analyzed (detection limit 10 ppb).
- REWOCOROS® AC 100 US provides good emulsifying properties and reserve alkalinity and enhances fluid lifetime.
- REWOCOROS® AC 100 US is a clear liquid product and conduces easy blending processes.
- REWOCOROS® AC 100 US is 90 % readily biodegradable (total degradation according to OECD 301D).

Dosage/Handling

Depending on what other surfactants, free amines and free fatty acids are present we recommend to use about 5 – 15 % of REWOCOROS® AC 100 US. Basic guide recipes and formulating techniques are available upon request.

Storage stability

In original closed containers, REWOCOROS® AC 100 US can be stored for at least 1 year at temperatures between 15 and 40 °C.

Storage below 5°C may result in cloudiness or crystalline precipitation.

By warming up the product becomes clear and has to be completely homogenized by gentle stirring without affecting the quality.

Packaging

Bulk
200 kg steel drum
Pallet size: 4 x 200 kg = 800 kg
950 kg plastic container on steel pallet

Registration status

The ingredients of REWOCOROS® AC 100 US are listed in the following chemical inventories:

EINECS, TSCA, DSL, AICS, ECL, ENCS, PICCS and CHINA

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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