

REWOCOROS® AC 101

Product description

REWOCOROS® AC 101 is a specially modified fatty acid monoethanol amine (MEA) condensation product based on oleamide.

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 101 is used as a corrosion inhibitor and co-emulsifier for water based metal working fluids (MWF).

We highly recommend the use of REWOCOROS® AC 101 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 101 can be used to formulate soluble MWF along with sodium sulfonates.

To solubilize REWOCOROS® AC 101 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 101 provides superior corrosion protection of the newly formed metal surfaces during the metal working process.
- It increases the stability of metalworking fluids and allows for extreme dilution of emulsions without rust formation. These effects cannot be achieved with in-situ generated fatty acid MEA soaps.
- Due to its characteristics as co-emulsifier REWOCOROS® AC 101 allows for a reduction of the total emulsifier amount.
- This product provides metalworking fluids with excellent reserve alkalinity.
- REWOCOROS® AC 101 improves the wetting properties of metalworking fluids.
- It is not known to show any detrimental effect on the finished parts.
- Furthermore, it is free of secondary amines. It complies with German TRGS 611.
- REWOCOROS® AC 101 is a clear liquid product that conduces easy blending processes.
- REWOCOROS® AC 101 is 90 % readily bio-degradable (total degradation according to OECD 301 D).

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 101. Basic guide recipes and formulating hints are available upon request.

Storage stability

In original closed containers REWOCOROS® AC 101 can be stored for at least 1 year at temperatures between 15 and 40 °C.

Storage below 10 °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 101 are listed in the following chemical inventories:

EINECS, TSCA, DSL, ENCS, AICS, TCCL, PICCS, TCSI, China and Neuseeland.

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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