

# SITREN® MR 871

## Product description

SITREN® MR 871 is an emulsion concentrate based on biodegradable oils for the formulation of environmentally friendly mould release emulsions.

## Physical properties

Appearance	milky, liquid
Type of emulsion	oil in water (o/w)
Active content	56 + 2 %
Density (25 °C)	approx. 1 g/cm <sup>3</sup>

## Application

- Concentrate for the formulation of stable mould release emulsions.
- Mould release agent for on-site use in precast industry.

## Properties/Benefits

SITREN® MR 871 reduces the adhesion between concrete and mould resulting in minimum cleaning and wear of the mould yielding improved surface properties of the concrete at the same time.

Additionally, SITREN® MR 871 provides the following benefits and advantages:

- Reduced health and environmental risks due to biodegradable active material
- Excellent corrosion inhibition on metal moulds and heated moulds
- Smooth surface
- Reduced number of pin holes and other surface defects
- No discoloration of the concrete surface

- Reduced dust build-up on moulds – resulting in a cleaner surface and less cleaning cycles
- For horizontal and vertical cast concrete applications
- Easy to dilute and apply
- Dilutions of SITREN® MR 871 exhibit excellent storage stability (tap water may be suitable)

## Dosage and Handling

For the formulation of stable mould release emulsions SITREN® MR 871 may be diluted 1: 1 to 1: 3 by adding water (demineralised water or soft tap water) to the concentrate. Dilutions have to be protected by adding a suitable preservative (e. g. Actacid MBS from Thor-Chemie).

For direct use in precast applications SITREN® MR 871 has to be applied from pre-dilutions. The mould should be thoroughly cleaned prior to application of the mould release agent. The entire mould surface has to be covered with SITREN® MR 871, e. g. by spraying before placing the reinforcement. Any excess of the mould release agent needs to be removed in order to avoid adverse effects on the concrete's surface properties. The water from the release agent has to be evaporated completely before the concrete is casted into the mould to achieve the best release performance.

Typical treat rate of SITREN® MR 871 (1 : 1 dilution) may vary from 10 – 18 ml/m<sup>2</sup>. SITREN® MR 871 should not be applied at temperatures below 0 °C or during heavy rain falls.

## Registration status

The ingredients of SITREN® MR 871 are listed in the following chemical inventories:

EINECS, DSL, ENCS, AICS, ECL, TSCA and China.

Further information is available on request.

### Storage stability

SITREN® MR 871 may be stored in closed containers for at least 12 months. The product has to be stored under frost-free conditions; storage conditions should not exceed 35 °C.

The same applies to dilutions of SITREN® MR 871. Improper dilution conditions or preservation may adversely affect the stability of the diluted product.

### Packaging

Pallet à 300 kg (6 x 50 kg plastic drums)  
Container à 900 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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