

# Klüberbio C 2-46

Ultimately biodegradable escalator chain oil



## Benefits for your application

- Escalator chain oil
- Ultimately biodegradable
- Free from solvents
- Protects against wear
- Good penetrating properties

## Description

Klüberbio C 2-46 is an ultimately biodegradable ester oil falling under the water hazard class 1.

It is free of solvents and offers good penetrating properties as well as wear protection.

## Application

Klüberbio C 2-46 has been specifically designed for the lubrication of chains in passenger conveyors and escalators. It is also suitable for transport chains in agricultural and forestry machines.

## Application notes

Klüberbio C 2-46 can be applied through drip feed lubrication systems, by brush or oil feeder. Lubrication by means of automatic or oil-mist lubrication systems is possible as well.

When using automatic lubrication, please observe the maximum viscosity specified by the manufacturer.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klüberbio C 2-46
Canister 5 l	+
Canister 20 l	+

Product data	Klüberbio C 2-46
Article number	009004
Lower service temperature	-40 °C / -40 °F
Upper service temperature	80 °C / 176 °F
Density, DIN 51757, 20 °C	approx. 0.93 g/cm <sup>3</sup>
ISO viscosity grade, DIN ISO 3448	46
Biodegradability according to OECD 301 F, (within 28 days)	>= 60 %
Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus	>= 200 °C
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 46 mm <sup>2</sup> /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 10 mm <sup>2</sup> /s
Anticorrosive properties on steel, DIN ISO 7120, method A, steel, 24 h/60 °C	no rust corrosion degree



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Corrosion protection behaviour, DIN EN ISO 6270-2, condensation water in alternating atmosphere, 40 °C, material steel ST 37, corrosion after	>= 10 cycles
Pour point, DIN ISO 3016	<= -40 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months

## Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 80 years.

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The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

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