

## Klüberfood NH1 CH 2 oil series

High-temperature chain oils for the food and pharmaceutical industries

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### Benefits for your application

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- Improved wear protection resulting in extended chain life
  - Low evaporation compared with many other ester oils commonly used in high temperature chain applications in the food industry delivering reduction in oil consumption and life cycle costs
  - NSF H1-registered supporting process reliability
  - ISO 21469 certified - supports the compliance with the hygienic requirements in your production plant. You will find further information on ISO Standard 21469 on our website [www.klueber.com](http://www.klueber.com)
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### Description

Klüberfood NH1 CH 2 series oils are synthetic high-temperature chain oils ensuring reliable lubrication even at high temperatures. Owing to a special additive package these oils offer wear protection. They show low evaporation losses at high temperature.

The use of Klüberfood NH1 CH 2 series oils, NSF H1-registered lubricants, is a contributor towards the supporting of food safety. The use of Klüberfood NH1 CH 2 series oils needs to be considered not in isolation but in line with other appropriate actions which have by law to be fulfilled by a food manufacturing plant to allow for food to be manufactured safely.

### Application

The Klüberfood NH1 CH 2 oil series has been designed for lubrication of all drive, control and transport chains subject to high temperatures and loads.

They are particularly suitable for use in bakery and other high temperature chain applications in the food industry. ISO 21469 makes reference to the use of lubricants for incidental contact with the food product and its packaging. Klüberfood NH1 CH 2 series oils support legislation compliance due to their NSF H1 status and use for areas with incidental food contact.

Please do not spray in enclosed space for example electrical cabinets. Please see product label for more information.

### Application notes

- The oils can be applied by means of brush, oil feeder or automatic lubrication systems.
- When applied in automatic lubrication systems, please observe the maximum viscosity specified by the machine manufacturer.
- Do not spray on a naked flame or any incandescent material and keep away from sources of ignition.
- In view of the many different paint systems and testing criteria, paint compatibility tests should be performed by the user prior to series application.
- In case of contact with elastomers and plastics their resistance to Klüberfood NH1 CH 2 series oils should be checked.
- The low evaporation losses and high oxidation stability allow optimized relubrication intervals and quantities.

Please contact our technical sales staff for further information and support where required



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### Minimum shelf life

The minimum shelf life is approx. 24 months if the product is stored in its unopened original container in a dry, frost-free place.

Do not expose Klüberfood NH1 CH 2-220 spray to direct sunlight and temperatures above 50 °C!

### Pack sizes

20 l canister  
200 l drum  
400 ml aerosol cans

### Material Safety Data Sheets

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

Product data	Klüberfood NH1 CH 2-150	Klüberfood NH1 CH 2-220	Klüberfood NH1*** CH 2-220 Spray
Composition, oil type	ester oil	ester oil	
Colour	yellow	yellow	
Service temperature range* [°C]	0 – 250	0 – 250	
Density, DIN 51757 at 20 °C, [g/cm <sup>3</sup> ], approx.	0.96	0.95	
Kinematic viscosity, DIN 51562 part 01 at 40 °C, [mm <sup>2</sup> /s] at 100 °C, [mm <sup>2</sup> /s], approx.	135-165 13	200-240 17	
Viscosity index, DIN ISO 2909	≥ 70	≥ 70	
NSF-H1 registration**, registration no.	141948	139419	142052

\* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, shear viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

\*\* This lubricant is registered as H1, which means that it has been designed for incidental, technically unavoidable food contact. Experience shows that it can be used for equivalent applications in the cosmetic and pharmaceutical industries under the conditions described in the product information leaflet. Specific test results as e.g. biocompatibility, which could be an additional requirement for applications in the pharmaceutical industry, are not available for this product. Therefore, before using the lubricant adequate risk analyses should be performed and, if necessary, suitable measures be taken by the manufacturer and user of installations in order to exclude the risk of health hazards and personal injuries.

\*\*\* The technical data refer to the active agent of the spray (= Klüberfood NH1 CH 2-220). Propellant: propane-butane


### Lubrication is our world

**With more than 2000 products available around the world, you can be sure that Klüber has the right product for your application. Please contact Klüber Lubrication specialists worldwide to assist you in all matters regarding lubrication.**

[www.klueber.com](http://www.klueber.com)

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