

# PRODUCT INFORMATION

## **THERMOCLEAN**

#### **Description**

THERMOCLEAN is a highly deterging additive for cleaning circulation oil systems. It is specifically designed for cleaning heat transfer systems, with the effect of improving heat transfer and flow, which is contributing to the reduction of energy costs.

## **Application**

THERMOCLEAN is added to used heat transfer oil. Depending on the level of contamination, the concentration of THERMOCLEAN should be 2-5% of the volume.

The oil should be circulated for at least 24 hours at 120-150°C. Due to its highly deterging properties, coke and deposits will be removed and dissolved. With heavily contaminated equipment, it can be used for up to 4 weeks if operated at normal temperatures and with a fine filter. Drain the waste oil and refill with ASSISTO Therm 5 heat transfer oil.

In severe cases, 10% THERMOCLEAN is added to the fresh ASSISTO Therm 5 and circulated in the system again for at least 6 hours at a temperature of 120-150°C. Drain the waste oil and refill with ASSISTO Therm 5.

After applying THERMOCLEAN, the filter has to be cleaned more frequently.

Please be aware that THERMOCLEAN can affect the air release and foaming properties of lubricants and thus cause problems when used in steam or gas turbines, hydraulic systems or similar.

Apply only under the supervision of LUKOIL's technical service.

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#### Typical Characteristics

| Properties        | Test Method  | Data | Unit  |
|-------------------|--------------|------|-------|
| Density at 15°C   | DIN 51757    | 1050 | kg/m³ |
| Flash point (COC) | ISO 2592     | >160 | °C    |
| Pour point        | DIN ISO 3016 | -6   | °C    |

## Health and Safety

The Safety Data Sheet is available on request and describes the product in terms of safety in use, handling and transport. The product is not classified as dangerous according to the Regulations 1907/2006 and 1272/2008 or the Directives D67/548/EEC and 1999/45/EC. When used as intended, this product does not pose significant health risks. May cause eye irritation. Risk of product entering the lungs on vomiting after ingestion. Aspiration my cause pulmonary oedema and pneumonitis.

## Handling and Packaging

The compatibility and miscibility with comparable products from other suppliers have been tested successfully by an independent institute. In order to benefit from first-class product performance, the mixing of lubricants should be limited to a minimum.

All packages should be stored under cover to avoid water ingress and the obliteration of drum markings. Products should not be stored above 60°C.

The product is available in drums of approximately 205 litres as well as pails of approximately 20 litres.

#### **Further Information**

For further information about LUKOIL Marine Lubricants please contact any representative of LUKOIL Marine Lubricants or visit our website www.lukoilmarine.com.

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This data sheet and the information given are considered to be accurate to the best of our knowledge. While the physical and chemical characteristics are typical of current production and compliant to specification of «LLK International», variations in these characteristics may occur. No warranty expressed or implied, is given as to the accuracy or completeness of the information or suitability of the products. «LLK International» and the distributor shall not be responsible for any damage or injury resulting from abnormal use of the product. The user will be always responsible to evaluate and use products safely and to comply with all applicable laws and regulations. Furthermore «LLK International» shall not be liable for any loss or damage resulting from any error or omission in this document.