

## LUKOIL THERMOCLEAN

Version 1.1

Revision Date 25.03.2015

Print Date 02.12.2016

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : LUKOIL THERMOCLEAN  
Product code : 571655

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- : Industrial use  
stance/Mixture

#### 1.3 Details of the supplier of the safety data sheet

Company : Lukoil Lubricants Europe Oy  
Ölhafen Lobau – Uferstr. 8  
1220 Wien  
Austria

Telephone : +43 (1) 205 222 - 8800  
Responsible/issuing person : info.product-safety@lukoil.com

#### 1.4 Emergency telephone number

Telephone : VIZ - Vergiftungszentrale  
24h/7d  
+43 1 406 43 43

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

##### Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary statements : P102 Keep out of reach of children.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

#### 2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

## LUKOIL THERMOCLEAN

Version 1.1

Revision Date 25.03.2015

Print Date 02.12.2016

This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).  
Material can create slippery conditions.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Mixture  
Hydrocarbons

Remarks : No hazardous ingredients

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice : First aider needs to protect himself.

If inhaled : If breathed in, move person into fresh air.  
Move to fresh air in case of accidental inhalation of vapours.

In case of skin contact : Wash skin thoroughly with soap and water or use recognized skin cleanser.  
If on clothes, remove clothes.

In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Do NOT induce vomiting.  
Obtain medical attention.  
When symptoms persist or in all cases of doubt seek medical advice.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Gastrointestinal discomfort  
Stomach/intestinal disorders  
Vomiting  
Pneumonia  
irritant effects

Risks : May cause eye irritation.  
Risk of product entering the lungs on vomiting after ingestion.  
Aspiration may cause pulmonary oedema and pneumonitis.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Later control for pneumonia and lung oedema.

## LUKOIL THERMOCLEAN

Version 1.1

Revision Date 25.03.2015

Print Date 02.12.2016

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Dry powder  
Foam  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Vapours are heavier than air and may spread along floors.  
Vapours may form explosive mixtures with air.  
Cool closed containers exposed to fire with water spray.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Extinguishing media - large fires Complete suit protecting against chemicals

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Keep people away from and upwind of spill/leak.  
Use personal protective equipment.  
First aider needs to protect himself.  
Avoid contact with skin, eyes and clothing.  
Ensure adequate ventilation, especially in confined areas.  
The danger areas must be delimited and identified using relevant warning and safety signs.  
Refer to section 15 for specific national regulation.

#### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage.  
Avoid subsoil penetration.  
Do not contaminate water.  
Prevent product from entering drains.  
Local authorities should be advised if significant spillages cannot be contained.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.  
Soak up with oil absorbent material.

## LUKOIL THERMOCLEAN

Version 1.1

Revision Date 25.03.2015

Print Date 02.12.2016

Offer surplus and non-recyclable solutions to a licensed disposal company.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Take care to avoid waste and spillage when weighing, loading and mixing the product.  
Avoid formation of aerosol.  
Use only in area provided with appropriate exhaust ventilation.  
Provide exhaust ventilation close to floor level.  
Do not get on skin or clothing.  
Avoid inhalation, ingestion and contact with skin and eyes.
- Advice on protection against fire and explosion : To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.  
Vapours are heavier than air and may spread along floors.  
Vapours may form explosive mixtures with air.  
Take measures to prevent the build up of electrostatic charge.  
Keep away from heat and sources of ignition.  
Keep in a banded area.  
Do not smoke.
- Hygiene measures : Remove all contaminated clothing under the shower.  
Wash contaminated clothing before re-use.  
Do not get in eyes.  
Avoid contact with skin and clothing.
- Fire-fighting class : Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep tightly closed.  
Keep in a well-ventilated place.  
To prevent leaks or spillages from spreading, provide a suitable liquid retention system.
- Further information on storage conditions : Keep away from heat and sources of ignition.
- Advice on common storage : Do not store together with explosives, gases, oxidizing solids, products which form flammable gases in contact with water, oxidizing products, infectious products and radioactive products.  
Do not store together with oxidizing and self-igniting products.  
Do not store together with explosives, oxidizing agents, organ-

## LUKOIL THERMOCLEAN

Version 1.1

Revision Date 25.03.2015

Print Date 02.12.2016

ic peroxides and infectious products.  
Do not store together with acids and ammonium salts.

### 7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

No data available

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Wear the following personal protective equipment:  
Safety glasses with side-shields conforming to EN166

#### Hand protection

Material : Nitrile rubber  
Break through time : 480 min  
Glove thickness : 0,40 mm  
Directive : DIN EN 374  
Viton (R)  
480 min  
0,70 mm  
DIN EN 374  
butyl-rubber  
120 min  
0,70 mm  
DIN EN 374  
Neoprene  
60 min  
0,60 mm  
DIN EN 374

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special work-place conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Skin and body protection : Flame retardant protective clothing  
Workers should wear antistatic footwear.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## LUKOIL THERMOCLEAN

Version 1.1

Revision Date 25.03.2015

Print Date 02.12.2016

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.  
Respirator with filter type A  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.  
Suitable respiratory equipment:  
Self-contained breathing apparatus (EN 133)

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance : liquid  
Colour : brown  
Odour : No data available  
Odour Threshold : No data available  
pH : No data available  
pour point : -17 °C  
Method: ASTM D 97-66  
  
Flash point : No data available  
Flash point : > 160 °C  
Method: ASTM D 93  
  
Evaporation rate : No data available  
Burning rate : No data available  
Upper explosion limit : No data available  
Lower explosion limit : No data available  
Vapour pressure : < 0,1 hPa (ca. 20 °C)  
  
Vapour density : No data available  
Relative density : 1,052 (15,6 °C)  
  
Density : 1,051 g/cm<sup>3</sup> (15 °C)  
  
Bulk density : No data available  
Water solubility : practically insoluble  
Solubility in other solvents : No data available

## LUKOIL THERMOCLEAN

Version 1.1

Revision Date 25.03.2015

Print Date 02.12.2016

Partition coefficient: n-octanol/water	: not determined
Auto-ignition temperature	: 360 °C
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: 1.130 mm <sup>2</sup> /s (40 °C) Method: ASTM D 445
Flow time	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2 Other information

Self-heating substances	: No data available
Impact sensitivity	: No data available
Surface tension	: No data available
	: No data available
Molecular weight	: No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is chemically stable.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Incompatible with strong acids and oxidizing agents.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition : No decomposition if stored and applied as directed.

## LUKOIL THERMOCLEAN

Version 1.1

Revision Date 25.03.2015

Print Date 02.12.2016

products

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

**Product:**

Acute oral toxicity : No data available

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

Acute toxicity (other routes of administration) : No data available

##### Skin corrosion/irritation

**Product:**

slight irritation  
Non persistent irritation

##### Serious eye damage/eye irritation

**Product:**

Non persistent irritation

##### Respiratory or skin sensitisation

**Product:**

No known sensitising effect.

##### Germ cell mutagenicity

**Product:**

Genotoxicity in vitro : No data available

Genotoxicity in vivo : No data available

Germ cell mutagenicity- Assessment : No data available

##### Carcinogenicity

**Product:**

## LUKOIL THERMOCLEAN

Version 1.1

Revision Date 25.03.2015

Print Date 02.12.2016

This information is not available.

Carcinogenicity - Assessment : No data available

### Reproductive toxicity

**Product:**

Effects on fertility : This information is not available.

Effects on foetal development : This information is not available.

Reproductive toxicity - Assessment : No data available

### STOT - single exposure

**Product:**

No data available

### STOT - repeated exposure

**Product:**

No data available

### Repeated dose toxicity

**Product:**

This information is not available.

Repeated dose toxicity - Assessment : No data available

### Aspiration toxicity

**Product:**

No data available

### Further information

**Product:**

No data available

## LUKOIL THERMOCLEAN

Version 1.1

Revision Date 25.03.2015

Print Date 02.12.2016

### SECTION 12: Ecological information

#### 12.1 Toxicity

**Product:**

- Toxicity to fish : No data available
- Toxicity to daphnia and other aquatic invertebrates : No data available
- Toxicity to algae : No data available
- Toxicity to fish (Chronic toxicity) : No data available
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available
- Ecotoxicology Assessment Acute aquatic toxicity : No data available
- Chronic aquatic toxicity : No data available
- Toxicity Data on Soil : No data available
- Other organisms relevant to the environment : No data available

#### 12.2 Persistence and degradability

**Product:**

- Biodegradability : Result: Not readily biodegradable.
- Physico-chemical removability : The product is insoluble and floats on water.
- Impact on Sewage Treatment : No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

**Product:**

- Mobility : Should not be released into the environment.

## LUKOIL THERMOCLEAN

Version 1.1

Revision Date 25.03.2015

Print Date 02.12.2016

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).  
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

### 12.6 Other adverse effects

**Product:**

Additional ecological information : Should not be released into the environment.  
Do not let product enter drains.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : ÖNORM S 2100, key code group 54  
Dispose of in accordance with local regulations.  
13 02 05\*

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
15 01 10\*

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## SECTION 14: Transport information

### 14.1 UN number

ADR : Not dangerous goods  
RID : Not dangerous goods  
IMDG : Not dangerous goods  
IATA : Not dangerous goods  
ADN : Not dangerous goods

### 14.2 Proper shipping name

ADR : Not dangerous goods  
RID : Not dangerous goods  
IMDG : Not dangerous goods  
IATA : Not dangerous goods  
ADN : Not dangerous goods

### 14.3 Transport hazard class

ADR : Not dangerous goods  
RID : Not dangerous goods

## LUKOIL THERMOCLEAN

Version 1.1

Revision Date 25.03.2015

Print Date 02.12.2016

IMDG : Not dangerous goods  
IATA : Not dangerous goods  
ADN : Not dangerous goods

### 14.4 Packing group

ADR : Not dangerous goods  
RID : Not dangerous goods  
IMDG : Not dangerous goods  
IATA : Not dangerous goods  
ADN : Not dangerous goods

### 14.5 Environmental hazards

ADR : Not dangerous goods  
RID : Not dangerous goods  
IMDG : Not dangerous goods  
IATA : Not dangerous goods  
ADN : Not dangerous goods

### 14.6 Special precautions for user

Remarks : not required

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Take note of Directive 96/82/EC on the control of major- : Exempt  
accident hazards involving dangerous substances.

Fire Hazard Class : Exempt

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-  
accident hazards involving dangerous substances  
Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of ma-  
jor-accident hazards involving dangerous substances.  
Not applicable

Water contaminating class : WGK 1 slightly water endangering  
(Germany)

TA Luft List (Germany) : organic: others: 87,4 %

## **LUKOIL THERMOCLEAN**

Version 1.1

Revision Date 25.03.2015

Print Date 02.12.2016

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### **15.2 Chemical Safety Assessment**

A Chemical Safety Assessment is not required for this substance.

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### **SECTION 16: Other information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.