

Technical Datasheet

Elaskon NK-BB

Elaskon NK-BB is a maintenance lubricant for wire ropes. It is especially used for hoist ropes for cable ways as well as for elevator ropes.

Properties:

Elaskon NK-BB is liquid and contains an aromatic free solvent. After evaporation of the solvent a touch prove film is formed on the surfaces. It is water absorbing and has good adhesive power as well as excellent corrosion protection abilities.

Application:

Elaskon NK-BB is supplied in liquid form and applicable at normal temperature on the cleaned rope surface by spraying, brushing, rolling or that like. The film is ready after evaporation of the solvent, depending on climate conditions after 2-8 hours. The optimal application temperature is 20°C.

**green-colored,
transparent**

strong adhesion

low viscosity

easy to handle

**optimal corrosion
prevention**

Packaging:

200 l drum
30 l hobbock
20 l can



Elaskon Sachsen GmbH_Co. KG
for special lubricants
Lohrmannstraße 5-9
01237 Dresden
Germany

Tel.: +49 (0) 351 2 85 75-0
Fax: +49 (0) 351 2 85 75-99
web site: www.elaskon.de
e-mail: info@elaskon.de



Technical Data

state: 01/18/2006

Elaskon NK-BB

Density (15°C)	DIN 51757	0,85	g/cm ³
Flashpoint	DIN EN 22719	> 63	°C
Viscosity (40°C)	DIN 51562, Teil 1	22	mm ² /s
Viscosity (flow cup, nozzle 4/25°C)	DIN 53211	20	s
Breaking point (75 g/m ²), (without solvent)	DIN EN 12593	< -53	°C
Dropping point (Ubbelohde), (without solvent)	DIN 51801, Teil 2	> 85	°C

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

1.1. Product identifier

Elaskon NK-BB

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

Use of the substance/mixture

lubricant

1.3. Details of the supplier of the safety data sheet

Company name:	Elaskon Sachsen GmbH & Co. KG für Spezialschmierstoffe	
Street:	Lohrmannstraße 10	
Place:	D-01237 Dresden	
Telephone:	+49/351/28575-0	Telefax: +49/351/28575-99
e-mail:	info@elaskon.de	
Contact person:	Dr. Pusch	
Internet:	www.elaskon.de	
Responsible Department:	Laboratory	

1.4. Emergency telephone number: +49/351/28575-0 (during office hours)
0086-21-58902677

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Regulation (EC) No. 1272/2008

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

mixture of highly refined mineral oils and additives solved in an aromate free hydrocarbon solvent

Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	40-60%
	918-481-9	
	01-2119457273-39	
	Asp. Tox. 1; H304 EUH066	
68608-26-4	Sulfonic acids, petroleum, sodium salts	< 5%
	271-781-5	
	01-2119527859-22	
	Eye Irrit. 2; H319	

Full text of H and EUH statements: see section 16.

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SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixtureNon-flammable. Vapours can form explosive mixtures with air. Carbon dioxide (CO₂). Carbon monoxide**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. High slip hazard because of leaking or spilled product.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

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Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

No special measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep/Store only in original container.

Advice on storage compatibility

Do not store together with: Oxidizing agents.

Further information on storage conditions

Recommended storage temperature: at room temperature

7.3. Specific end use(s)

lubricant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Components with workplace or biological limit values to be monitored: none

Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber). FKM (fluororubber). penetration time (maximum wearing period): 480 min.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	green brown
Odour:	like: Petroleum:

Test method

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pH-Value:	not determined
Changes in the physical state	
Melting point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	70 °C DIN EN ISO 2719
Flammability	
Solid:	not applicable
Gas:	not applicable
Explosive properties	
none	
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	240 °C DIN 51794
Auto-ignition temperature	
Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined
Oxidizing properties	
Not oxidizing.	
Vapour pressure:	not determined
Density (at 15 °C):	0,88 g/cm ³ DIN 51757
Water solubility:	insoluble
Solubility in other solvents	
Petroleum:	
Partition coefficient:	not determined
Viscosity / kinematic: (at 40 °C)	23 mm ² /s DIN 51562
Vapour density:	not determined
Evaporation rate:	not determined
<u>9.2. Other information</u>	
Solid content:	not determined

Self ignition temperature in °C none

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Decomposition takes place from temperatures above: none

10.5. Incompatible materials

Oxygen.

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10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Irritant effect on the eye: mild irritant.

Irritant effect on the skin: none

Sensitising effects

Based on available data, the classification criteria are not met.

no danger of sensitization.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information**12.1. Toxicity**

The product is not: Ecotoxic.

12.2. Persistence and degradability

Biological degradation: Product is biodegradable with difficulty.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

12.4. Mobility in soil

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. Dispose of waste according to applicable legislation.

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Waste disposal number of used product

130208 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; other engine, gear and lubricating oils
Classified as hazardous waste.

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled. Dispose of waste according to applicable legislation. Delivery to an approved waste disposal company.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC): 45 % (396 g/l)
2004/42/EC (VOC): 45 % (396 g/l)

Additional information

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

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15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 15.

This data sheet contains changes from the previous version in section(s): 14.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)