

# Material Safety Data Sheet

Product name: ISOFLEX NBU 15

Date: September 27, 2002

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MSDS No. 1173

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## 1. Product and company identification

Product name: ISOFLEX NBU 15

Company: NOK KLÜBER CO.,LTD

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## 2. Composition/information on ingredients

Chemical names and synonyms: Lubricating grease

CAS No.	Components	Value
	Ester oil, Synthetic hydrocarbon oil	>25wt%
	Mineral oil	25 - 35wt%
	Barium complex soap	<35wt%
	Additives	<5wt%

Hazardous ingredients: Mineral oil

## 3. Hazardous identification

Prolonged skin contact may cause skin irritation and/or dermatitis.

## 4. First aid measures

### After inhalation

Remove victim to fresh air. If symptoms persist, call a physician.

### After contact with skin

Wash off with mild cleaners and plenty of water. If symptoms persist, call a physician.

### After contact with eyes

Rinse with plenty of water. If symptoms persist, call a physician.

### After ingestion

If large amounts are swallowed, do not induce vomiting. Obtain medical attention.

## **5. Fire-fighting measures**

### **Suitable extinguishing media**

Water spray, foam, dry powder, carbon dioxide (CO<sub>2</sub>)

### **Unsuitable extinguishing media**

High volume water jet

### **Special hazards**

In case of fire the following can be released: Carbon monoxide, hydrocarbons

### **Special protective equipment for firefighters**

Standard procedure for chemical fires.

### **Additional information**

Water mist may be used to cool closed containers.  
In the event of the fire and/or explosion do not breathe fumes.

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## **6. Accidental release measures**

### **Personal precautions**

Not required

### **Environmental precautions**

Do not flush into surface water or sanitary sewer system.

### **Methods for cleaning up/taking up**

Use mechanical handling equipment. Dispose of absorbed material in accordance with the regulations.

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## **7. Handling and storage**

### **Handling**

#### **Advice on safe handling**

No special handling advice required.

#### **Advice on protection against fire and explosion**

No special precautions required.

### **Storage**

#### **Requirements on storage conditions**

Store at room temperature in the original container.

#### **Incompatible materials**

Incompatible with oxidizing agents. Do not store together with food.

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## 8. Exposure controls/personal protection

### Additional advice on system design

not applicable

### Ingredients and specific control parameters

None

### Personal protective equipment

#### Respiratory protection

No special protective equipment required.

#### Hand protection

Wear chemical-resistant gloves.

#### Eye protection

Wear safety glasses. Do not wear contact lenses when working with chemicals.

#### Body protection

Wear clean, body-covering clothing to minimize dermal exposure.

#### General protection and hygiene measures

Avoid prolonged and/or repeated contact with skin. Remove soiled or soaked clothing immediately. Clean skin thoroughly after work; apply skin cream.

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## 9. Physical and chemical properties

<b>Form:</b>	paste
<b>Color:</b>	beige
<b>Odor:</b>	characteristic
<b>Density:</b>	approx. 1.0 g/cm <sup>3</sup> , 20°C
<b>Flash point:</b>	>230 °C (base oil)
<b>Ignition temperature:</b>	>300 °C (base oil)
<b>Lower explosion limit:</b>	not applicable
<b>Upper explosion limit:</b>	not applicable
<b>Water solubility:</b>	insoluble
<b>Vapor pressure:</b>	not applicable

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## **10. Stability and reactivity**

### **Stability**

Stable

### **Conditions to avoid**

None

### **Materials to avoid**

Strong oxidizing agents

### **Hazardous decomposition products**

None under normal use

### **Additional information**

None

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## **11. Toxicological information**

The toxicological data has been taken from products of similar composition.

**Acute toxicity:** No data

Prolonged skin contact may cause skin irritation and/or dermatitis.

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## **12. Ecological information**

### **Information on elimination (persistence and degradability)**

Product is insoluble in water. May be separated out mechanically in purification plants.

### **Behavior in environmental compartments**

Ecological injuries are not known or expected under normal use.

### **Ecotoxic effects**

Aquatic toxicity is unlikely due to low solubility.

### **Additional information**

Should not be released into the environment.

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## **13. Disposal considerations**

This product can be incinerated when in compliance with local, state and federal regulations. Offer rinsed packaging material to local recycling facilities.

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#### **14. Transport information**

**UN class :** not applicable

**UN No.:** not applicable

##### **Advice on transportation**

Not classified as dangerous in the meaning of transport regulations.

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#### **15. Regulatory information**

Please refer to the law and local regulations, etc. in each country.

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#### **16. Other information**

No information

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**The information provided in this Material 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 be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid if the material is used in combination with any other materials or if it is processed, unless specified in the text.**

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