

## Safety Data Sheet (SDS)

Date: June 22, 2011

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### 1. Product and company identification

**Product name:** KLÜBER L 801  
**Company:** NOK KLÜBER CO.,LTD  
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**Recommended use:** Lubricant agent

### 2. Hazardous identification

#### GHS classification:

<b>Physical Hazards</b>	Flammable Liquids Aerosols	Category 3 Category 1
<b>Health Hazards</b>	Acute Toxicity (oral) Acute Toxicity (dermal) Acute Toxicity (inhalation) Skin Corrosion / Irritation Serious Eye Damage / Eye Irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity - Single Exposure  Specific Target Organ Toxicity - Repeated Exposure Aspiration Hazard	Not classified Classification not possible Classification not possible Category 2 Classification not possible Classification not possible Classification not possible Classification not possible Classification not possible Category 3 (respiratory tract irritation) Category 2 (inhalation: lung) Category 1
<b>Environmental Hazards</b>	Hazardous to Aquatic Environment - Acute Toxicity Hazardous to Aquatic Environment - Chronic Toxicity Hazardous to Ozone Layer	Classification not possible Classification not possible Not classified

#### GHS Label Elements:

< Symbol >



< Signal word >

Danger

< Hazard statement >

Extremely flammable aerosol  
Pressurized container: May burst if heated  
Flammable liquid and vapour  
Causes skin irritation  
May cause respiratory irritation  
May cause damage to organs (inhalation: lung), through prolonged or repeated expose  
May be fatal if swallowed and enters airways

**< Precautionary statement >**

- Prevention** Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Ground/Bond container and receiving equipment.  
Do not spray on an open flame or other ignition source.  
Do not pierce or burn, even after use.  
Wear protective gloves/eye protection/face protection.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Do not breathe dust/fume/gas/mist/vapours/spray.
- Response** In case of fire: Use appropriate media for extinction.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Get medical advice/attention if you feel unwell.
- Storage** Protect from sunlight. Do not expose to temperatures exceeding 50 °C.  
Store in a well-ventilated place. Keep cool.  
Store locked up.
- Disposal** Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

**Other information:** Vapors may cause an internal disease.

Vapors may form explosive mixture with air.

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

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**3. Composition/information on ingredients**

**Chemical names and synonyms:** Lubricating spray

CAS No.	Components	Value
Trade secrets	Synthetic oil, inorganic paste, silica:<5wt%	-
13463-67-7	Titanium dioxide	<5wt%
Trade secrets	Mineral oil	<5wt%
Trade secrets	Petroleum solvent	<30wt%
106-97-8, etc.	LPG (butane:35-45wt%, other ingredients)	-

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**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.

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**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**

Ensure adequate ventilation. Remove all sources of ignition.

**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**

Use only in well-ventilated areas.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Vapors may form explosive mixture with air.

## Storage

### Requirements on storage conditions

Observe your national regulations relating to the storage of containers under pressure.

### 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

Provide adequate ventilation.

### Ingredients and specific control parameters

Mineral oil (mist): 5mg/m<sup>3</sup>, Butane: 1000ppm (TLV-TWA, ACGIH)

### Personal protective equipment

#### Respiratory protection

Wear appropriate respiratory protection.

#### 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. Do not breath vapors or spray mist.

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## 9. Physical and chemical properties

<b>Form:</b>	aerosol
<b>Color:</b>	gray
<b>Odor:</b>	characteristic
<b>Density:</b>	approx. 0.89 g/cm <sup>3</sup> ,20°C
<b>pH:</b>	not available
<b>Change in condition:</b>	not available

<b>Boiling point:</b>	not available
<b>Flash point:</b>	approx. 42 °C (solvent) ; <-40 °C (propellant)
<b>Ignition temperature:</b>	no data °C
<b>Lower explosion limit:</b>	1.5vol% (gas)
<b>Upper explosion limit:</b>	9.5vol% (gas)
<b>Vapor pressure:</b>	no data
<b>Vapor density:</b>	not available
<b>Water solubility:</b>	insoluble
<b>Partition coefficient (n-octanol/water):</b>	not available
<b>Decomposition temperature:</b>	not available

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## 10. Stability and reactivity

### Stability

Stable

### Conditions to avoid

Protect from sun.

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

None under normal use

### Additional information

Fire or intense heat may cause violent rupture of packages.

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## 11. Toxicological information

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

**Acute toxicity:** No information

**Skin Corrosion / Irritation:** Causes skin irritation;  
'(Sum of concentrations of Category 2 ingredients, petroleum solvent) >= 10%,  
in liquid solution' is met. Based on the above, Category 2 was assigned.  
Prolonged skin contact may cause skin irritation and/or dermatitis.

**Eye Damage / Irritation:** No information

**Sensitization:** No information  
**Germ Cell Mutagenicity:** No information  
**Carcinogenicity:** No information  
**Reproductive Toxicity:** No information

**Specific Target Organ Toxicity:**

**Single Exposure** May cause respiratory irritation;  
As the following ingredient classified in Category 3 (respiratory tract irritation), petroleum solvent, is contained at a concentration  $\geq 20\%$ , in liquid solution, Category 3 was assigned.

**Repeated Exposure** May cause damage to organs (inhalation: lung), through prolonged or repeated expose;  
As the following ingredient corresponding to Category 1, titanium dioxide, is contained at a concentration  $\geq 1$  but  $< 10\%$ , in liquid solution, Category 2 (inhalation: lung) can be assigned.

**Aspiration Hazard:** May be fatal if swallowed and enters airways;  
As the following ingredient classified in Category 1, petroleum solvent, is contained at a concentration  $\geq 10\%$ , in liquid solution, and the kinematic viscosity is less than or equal to  $20.5 \text{ mm}^2/\text{s}$ , Category 1 was assigned.

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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.  
This information refers to the agent.

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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 :** Class 2

**UN No.:** 1950

### **Advice on transportation**

This product is classified as dangerous substances. Pressurized container. Protect from sunlight and heat.

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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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