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Material Safety Data Sheet

Date: February 1, 2012

Revision Date:

1. Product and company identification

Product name: **NOXLUB TL 1013**

Company: NOK KLÜBER CO.,LTD

955-4, Aza Ohishi, Isohara, Isoharamachi, Kitaibaraki city, Ibaraki 319-1541, Japan

Telephone: +81-293-42-5365 Fax: +81-293-43-3817

Recommended use: Lubricant agent

2. Hazardous identification

GHS classification:

Physical Hazards Flammable Solids Not classified

Health Hazards Not classified Acute Toxicity (oral)

Acute Toxicity (dermal) Classification not possible Acute Toxicity (inhalation) Classification not possible Skin Corrosion / Irritation Classification not possible Classification not possible Serious Eye Damage / Eye Irritation Respiratory or Skin Sensitization Classification not possible Germ Cell Mutagenicity Classification not possible Carcinogenicity Classification not possible Reproductive Toxicity Classification not possible

Specific Target Organ Toxicity - Single Exposure Classification not possible Specific Target Organ Toxicity - Repeated Exposure Classification not possible Aspiration Hazard Classification not possible

Environmental Hazards Hazardous to Aquatic Environment - Acute Toxicity

Classification not possible Classification not possible

Hazardous to Aquatic Environment - Chronic Toxicity

GHS Label Elements:

< Symbol > No symbol

< Signal word > No signal word

No hazard statement < Hazard statement >

< Precautionary statement >

Prevention Not applicable

Response Not applicable

Storage Not applicable

Disposal Not applicable

Other information: >280°C traces of fluorinated products

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Some materials (e.g. titanium, aluminum or alloys of these materials) may cause lower decomposition temperatures.

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

3. Composition/information on ingredients

Chemical names and synonyms: Lubricating grease

CAS No.	Components	Value
Trade secrets	Synthetic hydrocarbon oil	- -
Trade secrets	Lithium soap	-
Trade secrets	Additives (Polytetrafluoroethylene, etc)	-

Hazardous ingredients: Void

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 (CO₂)

Unsuitable extinguishing media

High volume water jet

Special hazards

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

Special protective equipment for firefighters

Standard procedure for chemical fires.

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Additional information

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

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.

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.

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.

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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. Keep away from tobacco products.

9. Physical and chemical properties

Form: paste

Color: violet

Odor: characteristic

Density: approx. 0.86 g/cm³,20°C

pH: not available

Change in condition: ca.200°C (drop point, JIS K2220.8)

Boiling point: not available

Flash point: not applicable °C

Ignition temperature: no data °C

Lower explosion limit: not applicable

Upper explosion limit: not applicable

Vapor pressure: not applicable

Vapor density: not available

Water solubility: insoluble

Partition coefficient

(n-octanol/water):

Decomposition temperature: not available

10. Stability and reactivity

Stability

Stable

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Conditions to avoid

None

Materials to avoid

Strong oxidizing agents, strong bases, alkali metals, alkaline earth metals, Lewis acids

Hazardous decomposition products

>280°C traces of fluorinated products

Additional information

None

11. <u>Toxicological information</u>

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

Acute toxicity: No information

Skin Corrosion / Irritation: 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 No information

Repeated Exposure No information

Aspiration Hazard: No information

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.

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Additional information

Should not be released into the environment.

13. <u>Disposal considerations</u>

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

This product contains halogen.

14. Transport information

UN class: not applicable

UN No.: not applicable

Advice on transportation

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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

16. Other information

No information

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Safety Data Sheet (SDS)

Date: February 1, 2012

Revision Date: May 6, 2015

1. Product and company identification

Product name: NOXLUB TL 1013

Company: NOK KLÜBER CO.,LTD

955-4, Aza Ohishi, Isohara, Isoharamachi, Kitaibaraki city, Ibaraki 319-1541, Japan

Telephone: +81-293-42-5365 **Fax:** +81-293-43-3817

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GHS classification:

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Health HazardsAcute Toxicity (oral)Not classifiedAcute Toxicity (dermal)Classification not possible

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

Environmental Hazards Hazardous to Aquatic Environment - Acute Toxicity Classification not possible

Hazardous to Aquatic Environment - Chronic Toxicity

Hazardous to Ozone Layer

Classification not possible

Not classified

GHS Label Elements:

< Symbol > No symbol

< Signal word > No signal word

< Hazard statement > No hazard statement

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Prevention Not applicable

Response Not applicable

Storage Not applicable

Disposal Not applicable

SDS No.: 2056-GHS Page 2

Other information: >280°C traces of fluorinated products

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Germ Cell Mutagenicity: No information

Carcinogenicity: No information

Reproductive Toxicity: No information

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