MSDS No.: 1042-GHS Page 1

# **Material Safety Data Sheet**

Date: August 20, 2011

**Revision Date:** 

# 1. Product and company identification

**BARRIERTA IMI** Product name:

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. <u>Hazardous identification</u>

### 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 Serious Eye Damage / Eye Irritation Classification not possible 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 Hazardous to Aquatic Environment - Chronic Toxicity Classification not possible

**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

MSDS No.: 1042-GHS Page 2

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: Fluorinated lubricating grease

 CAS No.	Components	Value
 Trade secrets	Perfluoropolyether	-
9002-84-0	Polytetrafluoroethylene	-
Trade secrets	Additives	-

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

The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Special hazards

In case of fire the following can be released: traces of fluorinated products

### 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.

MSDS No.: 1042-GHS Page 3

## 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

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.

MSDS No.: 1042-GHS Page 4

### 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: white

Odor: none

**Density:** approx. 1.9 g/cm<sup>3</sup>,20°C

pH: not available

Change in condition: not available

Boiling point: not available

Flash point: none °C

**Ignition temperature:** not applicable °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

MSDS No.: 1042-GHS Page 5

#### Conditions to avoid

None

#### Materials to avoid

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.

MSDS No.: 1042-GHS Page 6

#### 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.

This product contains halogen.

Offer rinsed packaging material to local recycling facilities.

## 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

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.

SDS No.: 1042-GHS Page 1

# Safety Data Sheet (SDS)

**Date:** August 20, 2011

Classification not possible

Classification not possible

**Revision Date:** May 6, 2015

## 1. Product and company identification

Product name: BARRIERTA IMI

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

E-Mail: nklqc@nokklueber.co.jp

Recommended use: Lubricant agent

## 2. Hazardous identification

### **GHS** classification:

Physical Hazards Flammable Solids Not classified

Health Hazards Acute Toxicity (oral) Not classified

Acute Toxicity (dermal)

Acute Toxicity (inhalation)

Skin Corrosion / Irritation

Serious Eye Damage / Eye Irritation

Respiratory or Skin Sensitization

Germ Cell Mutagenicity

Classification not possible

Carcinogenicity

Reproductive Toxicity

Specific Target Organ Toxicity - Single Exposure

Specific Target Organ Toxicity - Repeated Exposure

Classification not possible

Classification not possible

Classification not possible

Classification not possible

Aspiration Hazard

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

Hazardous to Aquatic Environment - Chronic Toxicity

Hazardous to Ozone Layer Not classified

#### **GHS Label Elements:**

< Symbol > No symbol

< Signal word > No signal word

< Hazard statement > No hazard statement

< Precautionary statement >

Prevention Not applicable

Response Not applicable

Storage Not applicable

**Disposal** Not applicable

SDS No.: 1042-GHS Page 2

Other information: >280°C traces of fluorinated products

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: Fluorinated lubricating grease

CAS No.	Components	Value
Trade secrets	Perfluoropolyether	-
9002-84-0	Polytetrafluoroethylene	-
Trade secrets	Additives	-

## 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

The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## Special hazards

In case of fire the following can be released: traces of fluorinated products

### 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.

SDS No.: 1042-GHS Page 3

## 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

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.

SDS No.: 1042-GHS Page 4

### 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: white

Odor: none

**Density:** approx. 1.9 g/cm<sup>3</sup>,20°C

pH: not available

Change in condition: not available

Boiling point: not available

Flash point: none °C

**Ignition temperature:** not applicable °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

SDS No.: 1042-GHS Page 5

#### Conditions to avoid

None

#### Materials to avoid

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.

SDS No.: 1042-GHS Page 6

#### **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.

This product contains halogen.

Offer rinsed packaging material to local recycling facilities.

## 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

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.