

Material Safety Data Sheet

Product name: BARRIERTA J100ES

Date: September 10, 2002

Revision Date: September 27, 2002

MSDS No. 1863

Page 1 of 5

1. Product and company identification

Product name: BARRIERTA J100ES

Company: NOK KLÜBER CO.,LTD

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

Telephone: +81-293-42-5365

Fax: +81-293-43-3817

2. Composition/information on ingredients

Chemical names and synonyms: Fluorinated lubricating oil

CAS No.	Components	Value
	Perfluoropolyether	>95wt%
	Additives	<5wt%

Hazardous ingredients:

3. Hazardous identification

>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.

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.

6. Accidental release measures

Personal precautions

Risk of slipping due to leakage/spillage of product.

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.

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:	liquid
Color:	colorless
Odor:	none
Density:	approx. 1.89 g/cm ³ ,20°C
Flash point:	none °C
Ignition temperature:	not applicable °C
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Water solubility:	insoluble
Vapor pressure:	approx. 6.5E-5Pa (20°C)

10. Stability and reactivity

Stability

Stable

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. Toxicological information

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

Acute toxicity: LD50/oral/rat=>37.4g/kg(literature data)

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

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.

13. Disposal considerations

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

16. Other 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.
