

SAFETY DATA SHEET

PRODUCT NAME **KF grease**

Data of issue **05/31/2016**

Date of revision **-**

1 Identification of the substance or mixture and the supplier

Product name:	KF grease
Name of supplier:	Kyoto Electronics Manufacturing Co., Ltd.
Address:	68 Ninodan-cho, Shinden, Kisshoin, Minami-ku, Kyoto, Japan
Division:	Quality Assurance Department
Phone:	+81-75-691-4121
Fax:	+81-75-691-4127
Emergency phone No.:	+81-75-691-4125
SDS No.	GHS-0097E

2 Hazard identification

GHS hazard class and category

Physical hazards;	Flammable Solids:	Not classified
Health hazards;	Acute Toxicity (oral):	Not classified
	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
Environmental hazards;	Specific Target Organ Toxicity (Repeated Exposure):	Classification not possible
	Aspiration Hazard:	Classification not possible
	Hazardous To The Aquatic Environment -Acute hazard:	Classification not possible
	Hazardous To The Aquatic Environment -Chronic hazard	Classification not possible
	Hazardous to Ozone Layer:	Not classified

GHS Label Elements

Pictogram: No symbol

Signal word: No signal word
 Hazard statements: No hazard statement
 Precautionary statements
 Prevention: Not applicable
 Response: Not applicable
 Storage: Not applicable
 Disposal: Not applicable

Besides GHS hazard class and category

Other information: >280C 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

Substance/Mixture: Mixture
 Chemical names and synonyms: Fluorinated lubricating grease

Ingredient name	Composition (%)	Chemical formula	CAS No.
Perfluoropolyether	–	–	Trade secrets
Polytetrafluoroethylene	–	–	9002-84-0
Additives	–	–	Trade secrets

4 First-aid measures

Inhalation: Remove victim to fresh air. If symptoms persist, call a physician.
 Skin contact: Wash off with mild cleaners and plenty of water. If symptoms persist, call a physician.
 Eye contact: Rinse with plenty of water. If symptoms persist, call a physician.
 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: 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

Appropriate engineering controls:

Additional advice on system design: not applicable

Ingredients and specific control parameters: None

Individual protection measures, such as personal protective equipment (PPE):

Respiratory protector: No special protective equipment required.

Hand protection: Wear chemical-resistant gloves.

Eye/face protection: Wear safety glasses. Do not wear contact lenses when working with chemicals.

Skin and body protector: 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

pH: not available

Change in condition: not available

Boiling point: not available

Flash point: none

Ignition temperature: not applicable

Lower explosion limit: not applicable

Upper explosion limit: not applicable

Vapour pressure: not applicable

Vapour density: not available



Specific gravity (Density):	approx. 1.90 (20C)
Water solubility:	insoluble
Partition coefficient (n-octanol/water):	not available
Decomposition temperature:	not available

10 Stability and reactivity

Chemical stability:	Stable
Possibility of hazardous reactions:	no significant reaction
Conditions to avoid:	None
Incompatible materials:	Strong bases, alkali metals, alkaline earth metals, Lewis acids
Hazardous decomposition products:	>280C traces of fluorinated products

11 Toxicological information

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.
Serious Eye Damage / Eye Irritation	No information
Respiratory or Skin Sensitization:	No information
Germ Cell Mutagenicity:	No information
Carcinogenicity:	No information
Reproductive Toxicity:	No information
Specific Target Organ Toxicity:	No information
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.
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 Number: not applicable

UN Proper shipping name: not applicable

Class or Division: not applicable

Packing group: not applicable

Special precautions which a user needs to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises:

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

Disclaimer

For R&D use only. Not for drug, household or other uses.

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.