

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** FO-1CL, FO-2CL Fuser Oil

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant Identified Use(s)** These products are fuser oil in a cartridge for Brother Industries, Ltd. laser printers, multifunction devices and fax receivers. The cartridge should be used as supplied by Brother and for use in the products stated. Information provided on this SDS is only consistent with the use specified by Brother.

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer** Brother Industries, Ltd.  
15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan  
Telephone (for information): +81-52-824-2735

**Importer (USA)** Brother International Corporation  
200 Crossing Boulevard, Bridgewater, NJ 08807, USA  
Telephone (for information): +1-800-284-4329

**Importer (Canada)** Brother International Corporation (Canada) Ltd.  
1 Hotel de Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada  
Telephone (for information): +1-514-685-0600

**Importer (Europe)** Brother International Europe Ltd.  
Brother House, 1 Tame Street, Guide Bridge, Audenshaw, Manchester M34 5JE, UK  
Telephone (for information): +44-161-330-6531

**Importer (Australia)** Brother International (Aust.) Pty. Ltd. ACN 001 393 835  
Level 3, Building A, 11 Talavera Road, Macquarie Park, NSW 2113, Australia  
Telephone (for information): +61-2-9887-4344

**E-mail Address** sds.info@brother.co.jp

### 1.4 Emergency telephone number

**Emergency Telephone (24 hours)** CHEMTREC  
+1-703-527-3887 (International)  
+1-800-424-9300 (North America)

For France only:  
Antipoison Center telephone number: ORFILA +33-1-45-425-959

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Not classified as hazardous

#### Classification according to Directive 1999/45/EC

Not classified as hazardous

#### Australia Classification

Not classified as hazardous according to the criteria of NOHSC

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008

#### Hazard pictograms

None

#### Signal Word

None

#### Hazard Statements

None

#### Precautionary statements

None

### 2.3 Other hazards

This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Description of the mixture: Silicone oil (Mixture).

Chemical Name	CAS-No	EC-No	w/w%	Classification (67/548/EEC)	Classification (EU Reg. 1272/2008)
Dimethylpolysiloxane	**	-	ca. 90	Not classified	Not classified
Modified organopolysiloxane	**	-	ca. 10	Not classified	Not classified

For the full text of R-phrases and H-Statements see Section 16

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice	If symptoms persist, obtain medical attention.
Inhalation	Obtain immediate medical attention. In case of accident by inhalation remove casualty to fresh air and keep at rest.
Skin contact	Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water.
Eye contact	Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.
Ingestion	Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of water to drink.

### 4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Unlikely route of exposure.  
Skin contact: Oil may cause irritation.  
Eye contact: Oil may cause eye irritation.  
Ingestion: No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable Extinguishing Media	Extinguish preferably with dry chemical, Carbon dioxide, Foam.
Unsuitable Extinguishing Media	None.

### 5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors: Carbon monoxide, Carbon dioxide and Nitrogen oxides.

### 5.3 Advice for firefighters

Use appropriate respirator for carbon monoxide and carbon dioxide. Wear positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from any source.

## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures** Avoid contact with the skin and the eyes.
- 6.2 Environmental precautions** Prevent substance entering sewers. Washings must be prevented from entering surface water drains.
- 6.3 Methods and materials for containment and cleaning up** Wipe up with absorbent towel. Wash with water to remove remaining traces of oil.
- 6.4 Reference to other sections** For personal protection: See section 8.  
For disposal considerations: See section 13.

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling** Keep out of the reach of children. Avoid contact with skin. Avoid contact with eyes.
- 7.2 Conditions for safe storage, including any incompatibilities** Keep away from oxidizing agents.
- 7.3 Specific end use(s)** These products are fuser oil in a cartridge for Brother Industries, Ltd. laser printers, multifunction devices and fax receivers. This cartridge should be used as supplied by Brother and for use in the products stated.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

- Appropriate engineering controls** Good general ventilation should be sufficient under normal use.
- Personal protective equipment** Not normally required. For use other than in normal operating procedures (such as in the event of large spill), the following should be applied:
- |                          |   |
|--------------------------|---|
| Eye Protection           | Safety goggles.                           |
| Hand Protection          | Protective gloves.                        |
| Skin and body protection | Long sleeved clothing and long pants.     |
| Respiratory protection   | Dust mask. (Large spillages: Respirator). |
- Environmental Exposure Controls** Not normally required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Color	Colorless. Transparent.
Odor	Mercapto odor
Odor Threshold	No information available
pH	No information available
Melting point/freezing point	Not applicable
Initial boiling point and boiling range	Not applicable
Flash Point	> 300 °C (Open cup)
Evaporation rate	Negligible
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	No information available
Vapor pressure	Negligible (25 °C)
Vapor density	Not applicable
Relative density	0.97 (H <sub>2</sub> O=1)
Solubility(ies)	Insoluble (water)
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	Not applicable
Oxidizing properties	No information available

### 9.2 Other information

No information available.

## SECTION 10: Stability and reactivity

10.1 Reactivity	No information available.
10.2 Chemical stability	Stable.
10.3 Possibility of hazardous reactions	No information available.
10.4 Conditions to avoid	Keep away from heat. Avoid friction, sparks, or other means of ignition.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	Contains: Carbon monoxide, Carbon dioxide and Nitrogen oxides.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

Inhalation	No information available.
Eye contact	No information available.
Skin contact	No information available.
Ingestion	Acute LD <sub>50</sub> > 5000 mg/kg

**Skin corrosion/irritation** Skin patch test (24h): Negative (1%)

**Serious eye damage/irritation** No information available.

**Respiratory or skin sensitisation** No information available.

**Mutagenicity** No information available.

**Carcinogenicity** **Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA.**

**Other information** There is no concern for use with our laser printers, multifunction devices and fax receivers. The following information is provided for unintended use at high temperature. This product can generate formaldehyde at approximately 150 °C and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles, respirator or protective clothing when this product is heated at approximately 150 °C and above in the presence of air.

**SECTION 12: Ecological information**

**12.1 Toxicity** No information available.

**12.2 Persistence and degradability** No information available.

**12.3 Bioaccumulative potential** No information available.

**12.4 Mobility in soil** No information available.

**12.5 Results of PBT and vPvB assessment** This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**12.6 Other adverse effects** No information available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods** Dispose of in accordance with Federal, State, and local regulations.

Product name: FO-1CL, FO-2CL Fuser Oil

Issuing Date: 17-November-1997  
Revision Date: 10-November-2012  
Version: 4  
SDS No: FO-01-EUUSOTHER

## SECTION 14: Transport information

Not classified according to the United Nations "Recommendations on the Transport of Dangerous Goods"

<b>14.1 UN Number</b>	None
<b>14.2 UN proper shipping name</b>	None
<b>14.3 Transport hazard class(es)</b>	None
<b>14.4 Packing Group</b>	None
<b>14.5 Environmental hazards</b>	None
<b>14.6 Special precautions for user</b>	None
<b>14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code</b>	Not applicable

Not regulated under DOT, IMDG, ADR, RID, IATA.

## SECTION 15: Regulatory information

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	<b>EU:</b> Not classified as dangerous for supply/use. (1999/45/EC) <b>USA:</b> All chemical substances contained in this product are and had been listed on the TSCA Chemical Substances Inventory, and none is subject to any of the following TSCA requirements: section 4 test rules; proposed or final section 5(a)(2) significant new use rules; section 5(e) consent orders; section 8(a) preliminary assessment information rules; and section 8(d) health and safety data reporting rules. <b>Canada:</b> WHMIS: Not applicable. (Manufactured article)
<b>15.2 Chemical Safety Assessment</b>	No.

## SECTION 16: Other information

**Full text of R-phrases referred to under sections 2 and 3**      None

**Full text of H-Statements referred to under sections 2 and 3**      None

**Additional information**      The information relates only to this product. It may not be valid, if used in combination with any other materials or in any other process, and it is based on our best knowledge as of the date of preparation (revision).

**Revision Note**      Updated for compliance with EU Regulations 453/2010 and 172/2008 (CLP).

**References:**      U.S. 29CFR Part 1910  
ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices  
IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans World Health Organization  
EU Directive 91/322/EEC and 2000/39/EC  
NTP 11th Report on Carcinogens

**Abbreviations:**      ACGIH: American Conference of Governmental Industrial Hygienists  
ADR: European Agreement concerning the International carriage of Dangerous goods by Road (EU)  
DOT: Department Of Transportation (US)  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association  
IMDG: International Maritime Dangerous Goods  
NOHSC: National Occupational Health and Safety Commission (Australia)  
NTP: National Toxicology Program (US)  
OSHA: Occupational Safety and Health Administration (US)  
PEL: Permissible Exposure Limit  
RID: Regulations concerning the International carriage of goods by Rail (EU)  
STEL: Short Term Exposure Limit  
TLV: Threshold Limit Value (ACGIH)  
TSCA: Toxic Substances Control Act (US)  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Material Information System (Canada)