



Safety Data Sheet

1315582, 1524002,
1055905, 1055907,
1055911, 1055928

Product name: 1030, 1230, 1430, 7020, 7220, 7420 Film R bbon, Black

Date of issue: 21 February 2005
Revision date: 10 February 2016
Version: 3.0
SDS No: CO-RI-EUUSOTHER

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

1.1. Product identifier

Product form : Mixture
Product name : 1030, 1230, 1430, 7020, 7220, 7420 Film R bbon, Black

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

1.2.1. Relevant identified uses

Use of the substance/mixture : These products are ink r bbon in cartridge for Brother Industries, Ltd. Typewriters.

1.2.2. Uses advised against

No additional information available

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): +1-877-276-8437

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 number : CHEMTREC
+1-703-527-3887 (International)
+1-800-424-9300 (North America)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]
No labeling applicable

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH, annex XIII

SECTION 3: Composition/information on ingredients

3.2. Mixture

Name	Product Identifier CAS No.	w/w%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Carbon Black (bound)	1333-86-4	3.36	Not classified
Highly refined Mineral Oil	8012-95-1	4.56	Not classified
Quartz (bound)	14808-60-7	<0.35	Not classified
Cristobalite (bound)	14464-46-1	<0.02	Not classified
Resins	**	6.4-7.4	Not classified
Oils	**	1.15-2.04	Not classified
Filler	**	1.15-2.04	Not classified
Polyethylene film	25213-02-9	83-84	Not classified

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Full text of H- phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If symptoms persist, obtain medical attention.
 First-aid measures after inhalation : Not applicable.
 First-aid measures after skin contact : Wash affected skin with plenty of water or soap and water.
 First-aid measures after eye contact : Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.
 First-aid measures after ingestion : Obtain 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

- Symptoms/injuries : No specific effects and/or symptoms have been reported or known.

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, water mist, foam.
 Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : No information available.

5.3. Advice for firefighters

- Firefighting instructions : A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Not normally required.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Not applicable.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from oxidizing agents and extreme heat.

7.3. Specific end use(s)

These products are ink ribbon in cartridge for Brother Industries, Ltd. Typewriters.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients	CAS No.	OSHA PEL	ACGIH TLV
Carbon Black	1333-86-4	3.5mg/m ³ TWA	3.5mg/m ³ TWA
Mineral Oil (mist)	8012-95-1	5.0mg/m ³ TWA	5.0mg/m ³ TWA
Quartz (respirable quartz)	14808-60-7	0.1mg/m ³ TWA	0.1mg/m ³ TWA
Cristobalite	14464-46-1	0.025mg/m ³ TWA	0.025mg/m ³ TWA

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:
Hand protection : Protective gloves.
Eye protection : Safety goggles.
Skin and body protection : Not normally required.
Respiratory protection : No special protective equipment required.
Environmental exposure controls : Not normally required.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Film
Color	: Black.
Odor	: No information available
Odor threshold	: No information available
pH	: Not applicable
Relative evaporation rate (butyl acetate=1)	: Not applicable
Relative evaporation rate (ether=1)	: Not applicable
Melting point	: Not applicable
Freezing point	: None
Boiling point	: Not applicable
Flash point	: No information available
Auto-ignition temperature	: No information available
Decomposition temperature	: No information available
Flammability (solid, gas)	: No information available
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: Not applicable
Relative density	: No information available
Solubility	: Not applicable
Log Pow	: No information available
Log Kow	: No information available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Not applicable
Oxidizing properties	: No information available
Explosion limits	: Not applicable

9.2. Other information

No additional 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

Carbon monoxide. Carbon dioxide. Nitrogen oxides.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: No information available
Skin corrosion/irritation	: No information available pH: Not applicable
Serious eye damage/irritation	: Not classified pH: Not applicable
Respiratory or skin sensitization	: No information available
Germ cell mutagenicity	: No information available
Carcinogenicity	: Printing inks: IARC Classification: Group 3 (Non-classified Human Carcinogen)

Carbon Black: In 1996, the IARC re-evaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals, for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any association between carbon black and lung tumors.

Crystalline silica in the form of quartz or Cristobalite dust, quartz: IARC Classification: Group 1 (carcinogenic to humans)

Other ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA

Reproductive toxicity	: No information available
Specific target organ toxicity (single exposure)	: No information available
Specific target organ toxicity (repeated exposure)	: No information available
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Carbon Black (1333-88-4)

EC ₅₀ Daphnia	> 5600 mg/l 24 h (Daphnia magna)
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12.2. Persistence and degradability

Persistence and degradability	No information available.
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12.3. Bioaccumulative potential

Log Pow	No information available
Log Kow	No information available
Bioaccumulative potential	No information available.

12.4. Mobility in soil

Ecology - soil	No information available.
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12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH, annex XIII

12.6. Other adverse effects

Other adverse effects	: No information available.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in accordance with federal, state and local regulations.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / DOT / UN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR/RID) : None

Proper Shipping Name (IATA) : None

Proper Shipping Name (IMDG) : None

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : None

14.6. Special precautions for user

Special transport precautions : None

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IBC code : Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

15.1.2. National regulations

Regional legislation

: USA: 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.

Canada: WHMIS: Not applicable. (Manufactured article).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Data sources

: World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risks to Humans, Volume 93

World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risks to Humans, Volume 100C

World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risks to Humans, Volume 33

U.S. Department of labor, 29CFR Part 1910.

ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices

EU Commission Directive 2009/161/EU.

Abbreviations and acronyms

: IARC (International Agency for Research on Cancer)

IATA (International Air Transport Association)

IMDG (International Maritime Dangerous Goods Code)

REACH (Registration, Evaluation and Authorisation of Chemicals)

WHMIS (Workplace Hazardous Material Information System (Canada))

ACGIH (American Conference of Government Industrial Hygienists)

DOT (Department Of Transportation (US))

NTP (National Toxicology Program) (US)

OSHA (Occupational Safety and Health Administration) (US)

PEL (Permissible Exposure Limit)

STEL (Short Term Exposure Limit)

TLV (Threshold Limit Value) (ACGIH)

TSCA (Toxic Substances Control Act) (US)

TWA (Time Weighted Average).

Other information

: The information only relates to this specific 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).