

Product name: TN-311C, TN-316C, TN-319C, TN-321C, TN-326C, TN-329C, TN-331C, TN-336C, TN-339C, TN-341C, TN-346C, TN-349C, TN-351C, TN-359C, TN-376C, TN-379C, TN-900C Toner

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

1.1. Product identifier

Product name : TN-311C, TN-316C, TN-319C, TN-326C, TN-329C, TN-331C, TN-336C, TN-339C,

TN-341C, TN-346C, TN-349C, TN-351C, TN-359C, TN-376C, TN-379C, TN-900C Toner

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 cyan toner 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

1.2.2. 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)

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 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Australia Classification

Not classified as hazardous according to the criteria of NOHSC

2.2. Label elements

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

No labeling applicable



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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	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Styrene-acrylate copolymer	(CAS No) 25767-47-9 (EC no) -	>= 80	Not classified	Not classified
Fatty Acid Ester	(CAS No) ** (EC no) -	10 - 20	Not classified	Not classified
Pigment	(CAS No) ** (EC no) **	3 - 10	Not classified	Not classified
PMMA	(CAS No) 9011-14-7 (EC no) -	3 - 10	Not classified	Not classified
Silicon Dioxide (amorphous)	(CAS No) 112945-52-5 (EC no) 231-545-4	1 - 3	Not classified	Not classified
Silicon Dioxide (amorphous)	(CAS No) 844491-94-7 (EC no) 430-570-1	< 2	Not classified	Not classified
Styrene-acrylate Resin	(CAS No) ** (EC no) -	0.1 - 1	Not classified	Not classified

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Full text of R- and 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 : Obtain medical attention. In case of accident by inhalation : remove casualty to fresh air and

keep at rest.

First-aid measures after skin contact : Remove contaminated clothing immediately and 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 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

Symptoms/injuries after inhalation : For large quantities: May cause irritation to the respiratory system. Increased difficulty in

breathing. Sneezing. Coughing.

Symptoms/injuries after skin contact : Repeated and/or prolonged skin contact may cause irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : May cause stomach ache. Unlikely route of exposure.

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, foam.

Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Explosion hazard : May form explosible dust clouds in air.

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5.3. Advice for firefighters

Firefighting instructions

: Do not use high-pressure water in order to prevent creating a dust cloud and spreading fire dust. 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

6.1.1. For non-emergency personnel

Emergency procedures

: Ensure adequate ventilation. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Emergency procedures

: Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with filter

type A/P may be appropriate.

6.2. Environmental precautions

Prevent substance entering sewers. Washings must be prevented from entering surface water drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Sweep the spilt toner or remove it with a vacuum cleaner and transfer into a sealed container carefully. Sweep slowly to minimize generation of dust during cleanup. If a vacuum cleaner is used, the motor must be rated as dust explosion proof. Potential for very fine particles to be taken into the vacuum only to be passed back into the environment due to pore size in the bag or filter.

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

: Keep out of the reach of children. Avoid generation of dust. Avoid inhalation of high concentrations of dust. Avoid contact with eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from oxidizing agents.

7.3. Specific end use(s)

These products are cyan toner 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

Silicon Dioxide (amorphous) (112945-52-5)				
USA - OSHA	OSHA PEL (TWA) (mg/m³)	20 mg/m³ 20mppcf 80%SiO2		

Silicon Dioxide (amorphous) (844491-94-7)				
USA - OSHA	OSHA PEL (TWA) (mg/m³)	20 mg/m³ 20mppcf 80%SiO2		

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 : Long sleeved clothing and long pants.

Respiratory protection : Dust mask. (Large spillages: Respirator).

Environmental exposure controls : Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powder
Color : Cyan
Odor : odorless

Odor threshold : No information available

pH : Not applicable

Relative evaporation rate (butyl acetate=1) : No information available

Relative evaporation rate (ether=1) : Not available

Melting point: No information availableFreezing point: No information available

Boiling point : Not applicable Flash point : Not applicable

Auto-ignition temperature : No information available

Decomposition temperature : Not available
Flammability (solid, gas) : Not applicable
Vapor pressure : Not applicable
Relative vapor density at 20 °C : Not applicable

Relative density : No information available
Relative density of saturated gas/air mixture : No information available
Solubility : Insoluble in water
Log Pow : No information available
Log Kow : No information available

Viscosity, kinematic : Not applicable Viscosity, dynamic : Not applicable

Explosive properties : Explosive limits of toner particles suspended in air approximately equal to that of coal dust

Oxidizing properties : No information available Explosion limits : No information available

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 at temperature not exceeding 200 $^{\circ}\text{C}.$ 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 : Not classified

 LD50 oral rat
 > 2000 mg/kg (OECD 420 method)

 LC50 inhalation rat (mg/l)
 > 5.24 mg/l/4h (OECD 436 method)

Skin corrosion/irritation : May cause slight irritation. (OECD 404 method)

pH: Not applicable

Serious eye damage/irritation : Minimal irritant to the eye. (OECD 405 method)

pH: Not applicable

Respiratory or skin sensitization : It is not a skin sensitizer. (OECD 429 method)

Germ cell mutagenicity : AMES test : Negative. (OECD 471 method)

Carcinogenicity : Ingredients of this product have not been classified as carcinogens according to IARC

monographs, NTP and OSHA

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No information available.

12.2. Persistence and degradability

Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Log Pow No information available Log Kow No information available

12.4. Mobility in soil

Ecology - soil No information available.

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

: Do not put toner or toner cartridges into a fire, this can cause fire to spread with the risk of causing burn injuries. Shred toner cartridges in a dust/explosion controlled environment. Finely dispersed particles may form explosive mixtures in the air. 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 : EU:Not classified as dangerous for supply/use. (1999/45/EC)

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

Indication of changes: Newly issued.

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Data sources

: World Health Organization International Agency for Research on Cancer, IARC Monographs on

the Evaluation on the Carcinogenic Risks to Humans, Volume 93

EU Directive 1999/45/EC

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)

IOELV (Indicative Occupational Exposure Limit)

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))
ICAO (International Civil Aviation Organization)

NOHSC (National Occupational Health and Safety Commission (Australia))

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).

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