

Product name: TN-411C, TN-413C, TN-416C, TN-419C, TN-421C, TN-423C, TN-426C, TN-431C, TN-433C, TN-436C, TN-439C, TN-441C, TN-443C, TN-446C, TN-449C, TN-451C, TN-456C, TN-459C, TN-461C, TN-466C, TN-469C, TN-471C, TN-476C, TN-491C, TN-493C, TN-499C, TN-910C Toner

Date of issue: 04 April 2016 Revision date: 14 January 2020 Version:3 SDS No:CT413-02-EUUSOTHER

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

1.1.	Product identifier	
Product	name	: TN-411C, TN-413C, TN-416C, TN-419C, TN-421C, TN-423C, TN-426C, TN-431C, TN-433C, TN-436C, TN-439C, TN-441C, TN-443C, TN-446C, TN-449C, TN-451C, TN-456C, TN-459C, TN-461C, TN-466C, TN-469C, TN-471C, TN-476C, TN-491C, TN-493C, TN-499C, TN-910C Toner
1.2.	Relevant identified uses of the substa	nce or mixture and uses advised against
1.2.1.	Relevant identified uses	
Use of th	ne 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. No addit	Uses advised against ional information available	
1.3.	Details of the supplier of the safety da	ata sheet
Manufac	turer	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 A	ddress	sds.info@brother.co.jp
1.4.	Emergency telephone number	
Emerger	ncy number	: CHEMTREC +1-703-527-3887 (International) +1-800-424-9300 (North America) +61-290372994 (Australia) +61-290372994 (Australia)

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 OSHA GHS

Not classified

Australia Classification

Not classified as hazardous according to the criteria of NOHSC



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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	%	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 - 90	Not classified	Not classified
Fatty Acid Ester	(CAS No) ** (EC no) -	3 - 10	Not classified	Not classified
Pigment	(CAS No) ** (EC no) **	3 - 7	Not classified	Not classified
PMMA	(CAS No) 9011-14-7 (EC no) -	1 - 3	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 measur	es		
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.		
4.0 Indication of any immediate m			

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

Treat symptomatically.

SECT	ION 5: Firefighting measures
5.1.	Extinguishing media

Suitable extinguishing media	: Extinguish preferably with dry chemical, carbon dioxide, water, foam.	
Unsuitable extinguishing media	: None.	

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5.2. Special hazards arising fro	om the substance or mixture	
Explosion hazard	: May form explosible dust clouds in air.	
5.3. Advice for firefighters		
Firefighting instructions	Use appropriate respirator for carbon mor contained breathing apparatus (SCBA) du during cleanup in enclosed or poorly venti	o prevent creating a dust cloud and spreading fire dust. noxide and carbon dioxide. Wear positive pressure self- uring the attack phase of firefighting operations and ilated areas immediately after a fire. Personnel not st leave the area to prevent significant exposure to toxic

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. Emerger	For non-emergency personnel ncy procedures	:	Ensure adequate ventilation. Avoid contact with skin and eyes.
6.1.2. Emerger	For emergency responders ncy 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

used, the motor must be rated as dust explosion proof. Potential for very fine particles to be	Methods for cleaning up	:	taken into the vacuum only to be passed back into the environment due to pore size in the bag or
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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

: 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)

Precautions for safe handling

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/m ³)	20 mg/m ³ 20mppcf 80%SiO2						
		Silicon Dioxide (amorphous) (844491-94-7)						
Silicon Dioxide (amorpho	us) (844491-94-7)							

at your side

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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.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Powder	
Color	: Cyan	
Odor	: odorless	
Odor threshold	: No information available	
рН	: Not applicable	
Relative evaporation rate (butyl acetate=1)	: No information available	
Relative evaporation rate (ether=1)	: Not available	
Melting point	: No information available	
Freezing 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.

at your side

Safety Data Sheet

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10.4. Conditions to avoid

Keep at temperature not exceeding 200 °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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	: Not classified
LD ₅₀ oral rat LC ₅₀ inhalation rat (mg/l)	> 2000 mg/kg (OECD 420 method) > 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 exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Ecology	Toxicity - general	No information available.	
12.2. Persist	Persistence and degradability ence and degradability	No information available.	
12.3.	Bioaccumulative potential		
Log Pow		No information available	
Log Ko	W	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			
	. 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).



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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes: SECTION 1.

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 Governement 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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