

Product Name: TN-213Y, TN-217Y, TN-223Y, TN-227Y, TN-233Y, TN-237Y, TN-243Y, TN-243Y, TN-253Y, TN-253Y, TN-263Y, TN-267Y, TN-273Y, TN-277Y, TN-283Y, TN-287Y, TN-293Y, TN-297Y

Revision Date: 10-Sep-2018 Issuing Date: 06-Jul-2017 Revision Number: 2

Safety data sheet number: YT413-03

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

1.1. Product identifier	
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Product Form	Mixture
Safety data sheet number	YT413-03
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Relevant identified uses	These products are yellow 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.
Uses advised against	No information available
1.3. Details of the supplier of the sa	afety data sheet
<u>Manufacturer</u>	Brother Industries, Ltd. 15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan Telephone (for information): +81-52-824-2735
Importer_	(Europe) Brother International Europe Ltd. Brother House, 1 Tame Street, Audenshaw, Manchester M34 5JE, UK Telephone (for information): +44-161-330-6531 (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
For further information, please contact	
E-mail address	sds.info@brother.co.jp
1.4. Emergency telephone number	_
Emergency Telephone	CHEMTREC +1-703-527-3887 (International) CHEMTREC +61-290372994 (Australia)
	For France only: Antipoison Center telephone number: ORFILA +33-1-45-425-959



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## Section 2: Hazard(s) identification

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008 This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

### 2.2. Label elements

**Regulation (EC) No 1272/2008** This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### 2.3. Other hazards

No information available

## Section 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical name	CAS No	EC No	EC Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Styrene-acrylate-copolymer	25767-47-9	-	-	75-90	Not classified	Not applicable
Pigment	**	-	-	4-10	Not classified	Registered
Fatty acid ester	**	-	-	3-10	Not classified	Registered
Silicon dioxide (amorphous)	112945-52-5	231-545-4	-	1-3	Not classified	Registered
PMMA	9011-14-7	-	-	1-3	Not classified	Not applicable
Silicon dioxide (amorphous)	844491-94-7	430-570-1	-	<2	Not classified	Regsitered
Styrene-acrylate Resin	**	-	-	0.1-1	Not classified	Not applicable

Full text of H- and EUH-phrases: see section 16

### Section 4: First aid measures

4.1. Description of first aid meas	ures
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water.



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

Symptoms <u>4.3. Indication of any immediate me</u>	Inhalation (dust): For large quantities: May cause irritation to the respiratory system. Increased difficulty in breathing. Sneezing. Coughing Eye contact: May cause eye irritation Skin contact : Repeated and/or prolonged skin contact may cause irritation Ingestion: May cause stomach ache. Unlikely route of exposure dical attention and special treatment needed
Note to physicians	Treat symptomatically.

Section 5: Firefighting me	asures
5.1. Extinguishing media	
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Do not use water jet.

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

Specific hazards arising from the chemical <u>5.3. Advice for firefighters</u>	May form explosive dust clouds in air
Special protective equipment for fire-fighters	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

For non-emergency personnel	Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with filter type A/P may be appropriate.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas



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6.3. Methods and material for containment and cleaning up				
Methods for containment	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.			
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.			
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.			
6.4. Reference to other sections				
Reference to other sections	See section 8 for more information. See section 13 for more information.			

## Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Advice on safe handling	Keep out of the reach of children. Avoid generation of dust. Avoid inhalation of high concentrations of dust. Avoid contact with eyes.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.
7.2. Creatific and use(a)	

7.3. Specific end use(s)

These products are black 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 and personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Silicon dioxide (amorphous) 112945-52-5	TWA: 4 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>	-	-	-



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Derived No Effect Level (DNEL)	No information available.
Predicted No Effect Concentration (PNEC)	No information available.
8.2. Exposure controls	
Appropriate engineering controls	No information available.
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/face protection	No special protective equipment required.
Skin and body protection	No special protective equipment required.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Environmental exposure controls	Avoid release to the environment.

## Section 9: Physical and chemical properties

9.1. Information on basic physic	al and chemical properties	
Appearance		
Physical state	Powder	
Color	yellow	
Odor	Odorless.	
Odor threshold	No information available	
Property	Values	Remarks • Method
рН	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Insoluble in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known



None known

None known

None known

None known

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Explosive limits of toner particles suspended in air

approximately equal to that of coal dust.

Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties

**Oxidizing properties** 

No data available No data available No data available No data available No information available

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 under normal conditions.

#### 10.3. Possibility of hazardous reactions

None under normal processing.

#### 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 oxides, Nitrogen oxides (NOx)

### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

#### **Product Information**

Inhalation	Acute LC <sub>50</sub> > 5.25 mg/l/4h (OECD 436 method)	
Eye contact	No information available	
Skin contact	No information available	
Ingestion	Acute LD <sub>50</sub> > 2000 mg/kg (OECD 420 method)	



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Skin corrosion/irritation	Non-irritant (OECD 404 method)
Serious eye damage/eye irritation	Minimal irritant to the eye (OECD 405 method)
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

## Section 12: Ecological information

#### 12.1. Toxicity

The environmental impact of this product has not been fully investigated.

Contains 0 % of components with unknown hazards to the aquatic environment.

#### 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

No information available.

#### 12.6. Other adverse effects

No information available.



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## Section 13: Disposal considerations

#### 13.1. Waste treatment methods

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 of in accordance with Federal, State, and local regulations.

## Section 14: Transport information

IMDG		
14.1	UN/ID no	Not regulated
	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
	Packing group	Not regulated
14.5	Marine pollutant	Not applicable
14.6		None
14.7		oNo information available
	x II of MARPOL 73/78 and the	
IBC C	Code	
RID		
14.1	0.0.2	Not regulated
	Proper shipping name	Not regulated
	Hazard Class	Not regulated
	Packing group	Not regulated
14.5		Not applicable
14.6	Special Provisions	None
<u>ADR</u>	-	
14.1	UN/ID no	Not regulated
	Proper shipping name	Not regulated
	Hazard Class	Not regulated
	Packing group	Not regulated
14.5		Not applicable
14.6	Special Provisions	None
ΙΑΤΑ		
14.1	0.0.2	Not regulated
14.2		Not regulated
14.3		Not regulated
14.4	33.44	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special Provisions	None



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### Section 15: Regulatory information

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

EU-Regulations No information available

#### National Regulations

No information available

#### 15.2. Chemical safety assessment

No information available

## Section 16: Other information

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend

 SVHC: Substances of Very High Concern for Authorization:

 TWA
 TWA (time-weighted average)

 \*\*
 Trade secret

 STEL
 STEL (Short Term Exposure Limit)

#### Key literature references and sources for data No information available

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**Revision Note** No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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).