

Revision date: 24-Aug-2023 Issuing Date: 12-Sep-2013

Revision Number: 2

Product Name: TN229C, TN229XLC, TN229XLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XLC, TN248C, TN248C, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XLC, TN279C, TN279XLC, TN2

Safety data sheet number: CT413-04

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

### 1.1. Product identifier

Safety data sheet number CT413-04

Product Name TN229C, TN229XLC, TN229XXLC, TN229VC, TN229RC, TN219C, TN219XLC,

TN219XXLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XXLC, TN279C, TN279XLC, TN279XLC, TN289C,

TN289XLC, TN299C, TN299XLC, TN299XXLC toner

Other means of identification

Pure substance/mixture Mixture

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

**Recommended use**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.

Uses advised against No 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

### **Supplier**

(Europe)

Brother International (Nederland) B.V.

Zanderij 25, 1185 ZM Amstelveen, The Netherlands

Brother International Europe Ltd.

1 Tame Street, Audenshaw, Manchester M34 5JE, UK Telephone (for information): +44-161-330-6531

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)

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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

### Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### **Hazard statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

97.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

99.5 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Unknown aquatic toxicity

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

#### 2.3. Other hazards

No information available.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

# SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

## 3.2 Mixtures

Chemical name	CAS No.	EC No (EU	EC Index No	Weight-%	Classificatio	Specific	M-Factor	M-Factor	REACH
		Index No)			n according	concentrati		(long-term)	registration
					to	on limit			number
					Regulation	(SCL)			
					(EC) No.				
					1272/2008				
					[CLP]				

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Styrene-acrylate-c	25767-47-9	607-806-7	80-90	No data	-	-	-	Not
opolymer				available				applicable
Fatty acid ester	**	-	3-10	No data available	-	-	-	Registered
Pigment	**	-	3-7	No data available	-	-	-	Registered
Silicon dioxide (amorphous)	112945-52-5	601-216-3	1-3	No data available	-	-	-	Registered
PMMA	9011-14-7	618-466-4	1-3	No data available	-	-	-	Not applicable
Silicon dioxide (amorphous)	844491-94-7	430-570-1	<2	No data available	-	-	-	Registered
Styrene-acrylate Resin	**	-	0.1-1	No data available	-	-	-	Not applicable

<sup>\*\*</sup> CONFIDENTIAL

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

### **Acute Toxicity Estimate**

No information available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General advice** If symptoms persist, call a physician.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If

symptoms persist, call a physician.

**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 Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of

water to drink.

**Self-protection of the first aider** No information available.

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

**Symptoms** Inhalation ( dust ): For large quantities: May cause irritation to the respiratory system.

Increased difficulty in breathing. Sneezing. Coughing

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Skin contact: : Repeated and/or prolonged skin contact may cause irritation

Eye contact: May cause eye irritation

Ingestion: May cause stomach ache. Unlikely route of exposure

**Effects of Exposure** No information available.

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

# SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable Extinguishing Media** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable extinguishing media Do not use water jet.

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

Specific hazards arising from the

chemical

May form explosive dust clouds in air

### 5.3. Advice for firefighters

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.

6.2. Environmental precautions

Environmental precautions Prevent substance entering sewers. Washings must be prevented from entering surface

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water drains.

## 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, including any incompatibilities

**Storage Conditions** Keep away from oxidizing agents.

#### 7.3. Specific end use(s)

#### Specific use(s)

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.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Silicon dioxide	-	TWA: 4 mg/m <sup>3</sup>	=	=	-
(amorphous)					
112945-52-5					
PMMA	-	-	-	TWA: 20.0 mg/m <sup>3</sup>	-
9011-14-7				_	
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Silicon dioxide	-	-	TWA: 0.5 mg/m <sup>3</sup>	-	-
(amorphous)			Ceiling / Peak: 4		
112945-52-5			mg/m³		

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers No information available

Derived No Effect Level (DNEL) - General Public No information available.

Predicted No Effect Concentration (PNEC) No information available.

### 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/face protection Safety goggles

Hand protection Protective gloves

**Skin and body protection**Long sleeved clothing and long pants

Respiratory protection In case of large spillages: Wear suitable respiratory protective equipment.

**Thermal hazards** No information available.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**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 Powder cyan Odor Odorless.

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing point No information available None known

Initial boiling point and boiling No information available range

Flammability No information available

Flammability Limit in Air None known

**Upper flammability or explosive** No information available

Lower flammability or explosive No information available

limits
Flash point
No information available

Autoignition temperatureNo information availableNone knownDecomposition temperatureNo information availableNone known

pH No information available

**pH (as aqueous solution)**No information available
None known
No information available

Dynamic viscosity

No information available

Water solubility

No information available
Insoluble in water

Solubility(ies)No information availableNone knownPartition coefficientNo information availableNone known

 Partition coefficient
 No information available
 None known

 Vapor pressure
 No information available

No information available

Relative density

Bulk density

Liquid Density

No information available

No information available

No information available

Relative vapor density

No information available

Particle characteristics
Particle Size
No information available

### 9.2. Other information

**Particle Size Distribution** 

### 9.2.1. Information with regard to physical hazard classes

**Explosives** 

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

None known

Oxidizing properties No information available

9.2.2. Other safety characteristics

No information available

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# SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No information available.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat. Avoid friction, sparks, or other means of ignition.

10.5. Incompatible materials

Incompatible materials Strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

# SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Acute  $LC_{50} > 5.24 \text{ mg/l (4-hr) (OECD 436 method)}$ 

**Eye contact** No information available.

**Skin contact** No information available.

 $\label{eq:local_$ 

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#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Acute toxicity

**Numerical measures of toxicity** 

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal) 99,999.00 mg/kg

97.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

99.5 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Silicon dioxide (amorphous)	= 3160 mg/kg	-	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** May cause slight irritation (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

Reproductive toxicity No information available.

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**STOT - single exposure**No information available.

STOT - repeated exposure No information available.

**Aspiration hazard** No information available.

#### 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

# SECTION 12: Ecological information

### 12.1. Toxicity

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

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

### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

12.4. Mobility in soil

**Mobility in soil** No information available.

**Mobility** No information available.

### 12.5. Results of PBT and vPvB assessment

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

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bioaccumulating (vPvB).

#### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

#### 12.7. Other adverse effects

No information available.

# SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste from residues/unused products

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.

**Contaminated packaging** Do not reuse empty containers.

## SECTION 14: Transport information

### <u>IATA</u>

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable

14.6 Special precautions for user

Special Provisions None

### IMDG

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable

14.6 Special precautions for user

Special Provisions None

4.7 Maritime transport in hulk Not applie

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

### RID

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14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable 14.6 Special precautions for user

**Special Provisions** 

None

## <u>ADR</u>

14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated Not regulated 14.3 Transport hazard class(es) 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special precautions for user

**Special Provisions** None

# SECTION 15: Regulatory information

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

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

## **Persistent Organic Pollutants**

Not applicable

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

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#### International Inventories

**TSCA** Complies DSL/NDSL Complies **EINECS/ELINCS** Complies **ENCS** Complies Complies **IECSC** Complies **KECL PICCS** Complies **AICS** Complies **NZIoC** Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

### 15.2. Chemical safety assessment

Chemical Safety Report No chemical safety assessment has been carried out

# 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:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

### Legend SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

+ Sensitizers

Classification procedure					
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used				
Acute oral toxicity	Calculation method				
Acute dermal toxicity	Calculation method				
Acute inhalation toxicity - gas	Calculation method				
Acute inhalation toxicity - vapor	Calculation method				

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Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA RAC)

European Chemicals Agency (ECHA) (ECHA API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

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materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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Product Name: TN229M, TN229XLM, TN229XXLM, TN229VM, TN229RM, TN219M, TN219XLM, TN219XLM, TN248M, TN248XLM, TN249M, TN252PM, TN258M, TN258XLM, TN259M, TN269XLM, TN269XLM, TN279M, TN279M, TN279XLM, TN279XLM, TN279XLM, TN289XLM, TN289XLM, TN299XLM, TN299XLM toner

Safety data sheet number: MT413-04

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

### 1.1. Product identifier

Safety data sheet number MT413-04

Product Name TN229M, TN229XLM, TN229VM, TN229VM, TN219M, TN219M, TN219XLM,

TN219XXLM, TN248M, TN248XLM, TN249M, TN252PM, TN258M, TN258XLM, TN259M,

TN269M, TN269XLM, TN269XXLM, TN279M, TN279XLM, TN279XXLM, TN289M,

TN289XLM, TN299M, TN299XLM, TN299XXLM toner

Other means of identification

Pure substance/mixture Mixture

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

Recommended use These products are magenta 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 safety data sheet

#### Manufacturer

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

### <u>Supplier</u>

(Europe)

Brother International (Nederland) B.V.

Zanderij 25, 1185 ZM Amstelveen, The Netherlands

Brother International Europe Ltd.

1 Tame Street, Audenshaw, Manchester M34 5JE, UK Telephone (for information): +44-161-330-6531

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)

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Safety data sheet number: MT413-04

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

### Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### **Hazard statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

98 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Unknown aquatic toxicity

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

#### 2.3. Other hazards

No information available.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Not applicable

## 3.2 Mixtures

Chemical name	CAS No.	EC No (EU	EC Index No	Weight-%	Classificatio	Specific	M-Factor	M-Factor	REACH
		Index No)			n according	concentrati		(long-term)	registration
					to	on limit			number
					Regulation	(SCL)			
					(EC) No.				
					1272/2008				
					[CLP]				

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Styrene-acrylate-c	25767-47-9	607-806-7	75-85	No data	-	-	_	Not
opolymer				available				applicable
Fatty acid ester	**	-	5-14	No data	-	-	-	Registered
				available				
Pigment	**	-	3-10	No data	-	-	-	Registered
				available				
Styrene-acrylate	**	-	1-3	No data	-	-	-	Not
Resin				available				applicable
Silicon dioxide	112945-52-5	601-216-3	1-3	No data	-	-	-	Registered
(amorphous)				available				
PMMA	9011-14-7	618-466-4	1-3	No data	-	-	-	Not
				available				applicable
Silicon dioxide	844491-94-7	430-570-1	<2	No data	-	-	-	Registered
(amorphous)				available				

<sup>\*\*</sup> CONFIDENTIAL

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

### **Acute Toxicity Estimate**

No information available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General advice** If symptoms persist, call a physician.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Get immediate medical advice/attention.

**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 Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of

water to drink.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** Inhalation ( dust ): For large quantities: May cause irritation to the respiratory system.

Increased difficulty in breathing. Sneezing. Coughing

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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

**Effects of Exposure** No information available.

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

**Note to physicians** Treat symptomatically.

# SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable extinguishing media Do not use water jet.

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

Specific hazards arising from the

chemical

May form explosive dust clouds in air

### 5.3. Advice for firefighters

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.

6.2. Environmental precautions

**Environmental precautions** Do not flush into surface water or sanitary sewer system.

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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, including any incompatibilities

**Storage Conditions** Keep away from oxidizing agents.

### 7.3. Specific end use(s)

### Specific use(s)

These products are magenta 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.

Risk Management Methods (RMM)

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

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#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Silicon dioxide	-	TWA: 4 mg/m <sup>3</sup>	=	-	-
(amorphous)					
112945-52-5					
PMMA	-	=	=	TWA: 20.0 mg/m <sup>3</sup>	-
9011-14-7					
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Silicon dioxide	-	-	TWA: 0.5 mg/m <sup>3</sup>	-	-
(amorphous)			Ceiling / Peak: 4		
112945-52-5			mg/m³		

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers No information available

Derived No Effect Level (DNEL) - General Public No information available.

Predicted No Effect Concentration (PNEC) No information available.

### 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/face protection Safety goggles

Hand protection Protective gloves

**Skin and body protection**Long sleeved clothing and long pants

**Respiratory protection** Face Mask. In case of large spillages: Wear suitable respiratory protective equipment.

**Thermal hazards** No information available.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**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 Powder Color magenta Odor Odorless.

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing pointNo information availableNone knownInitial boiling point and boilingNo information availableNone known

range

Flammability No information available None known

Flammability Limit in Air None known

Upper flammability or explosive No information available

11111115

Lower flammability or explosive No information available

limits

Flash pointNo information availableNone knownAutoignition temperatureNo information availableNone knownDecomposition temperatureNo information availableNone knownpHNo information availableNone known

pH (as aqueous solution) No information available

Kinematic viscosityNo information availableNone knownDynamic viscosityNo information availableNone known

Water solubility Insoluble in water

Solubility(ies)No information availableNone knownPartition coefficientNo information availableNone knownVapor pressureNo information availableNone knownRelative densityNo information availableNone known

Bulk density

No information available

No information available

Liquid Density No information available

Relative vapor density No information available None known

**Particle characteristics** 

Particle SizeNo information availableParticle Size DistributionNo information available

### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

**Explosives** 

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

Oxidizing properties No information available

9.2.2. Other safety characteristics

No information available

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# SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No information available.

10.4. Conditions to avoid

**Conditions to avoid** Keep away from heat. Avoid friction, sparks, or other means of ignition.

10.5. Incompatible materials

Incompatible materials Strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx).

# SECTION 11: Toxicological information

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Information on likely routes of exposure

#### **Product Information**

Inhalation Acute  $LC_{50} > 5.20 \text{ mg/l/4h}$  (OECD 436 method)

**Eye contact** No information available.

**Skin contact** No information available.

 $\label{eq:local_$ 

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#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Acute toxicity

**Numerical measures of toxicity** 

## The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal) 99,999.00 mg/kg

98 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Silicon dioxide (amorphous)	= 3160 mg/kg	-	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**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

**Reproductive toxicity** No information available.

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**STOT - single exposure**No information available.

STOT - repeated exposure No information available.

**Aspiration hazard** No information available.

#### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

# SECTION 12: Ecological information

## 12.1. Toxicity

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

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

### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

12.4. Mobility in soil

**Mobility in soil** No information available.

**Mobility** No information available.

### 12.5. Results of PBT and vPvB assessment

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

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bioaccumulating (vPvB).

#### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

#### 12.7. Other adverse effects

No information available.

# SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste from residues/unused

products

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.

Contaminated packaging Do not reuse empty containers.

# SECTION 14: Transport information

### IATA

14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special precautions for user

**Special Provisions** None

### **IMDG**

14.1 **UN number or ID number** Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special precautions for user

**Special Provisions** None

14.7 Maritime transport in bulk according to IMO instruments

No information available

### RID

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None

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14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 14.6 Special precautions for user

Not regulated
Not regulated
Not regulated
Not applicable

<u>ADR</u>

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special precautions for user

**Special Provisions** 

Special Provisions None

# SECTION 15: Regulatory information

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

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

## **Persistent Organic Pollutants**

Not applicable

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

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#### International Inventories

**TSCA** Complies DSL/NDSL Complies **EINECS/ELINCS** Complies **ENCS** Complies Complies **IECSC** Complies **KECL PICCS** Complies **AICS** Complies **NZIoC** Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

### 15.2. Chemical safety assessment

Chemical Safety Report No chemical safety assessment has been carried out

# 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:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

### Legend SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

+ Sensitizers

Classification procedure						
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used					
Acute oral toxicity	Calculation method					
Acute dermal toxicity	Calculation method					
Acute inhalation toxicity - gas	Calculation method					
Acute inhalation toxicity - vapor	Calculation method					

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Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA RAC)

European Chemicals Agency (ECHA) (ECHA API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Issuing Date 13-Sep-2021

Revision date 24-Aug-2023

# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

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Revision date: 24-Aug-2023 Issuing Date: 13-Sep-2021

Revision Number: 2

Product Name: TN229M, TN229XLM, TN229XXLM, TN229VM, TN229RM, TN219M, TN219XLM, TN219XLM, TN248M, TN248XLM, TN249M, TN252PM, TN258M, TN258XLM, TN259M, TN269M, TN269XLM, TN269XLM, TN279M, TN279XLM, TN279XXLM, TN289M, TN289XLM, TN299M, TN299XLM, TN299XLM toner

Safety data sheet number: MT413-04

materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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Revision date: 24-Aug-2023 Issuing Date: 13-Sep-2021

Revision Number: 2

Product Name: TN229Y, TN229XLY, TN229XXLY, TN229VY, TN229RY, TN219Y, TN219XLY, TN219XLY, TN248Y, TN248Y, TN249Y, TN252PY, TN258Y, TN258XLY, TN259Y, TN269Y, TN269XLY, TN269XLY, TN279Y, TN279Y, TN279XLY, TN279XLY, TN279XLY, TN299Y, TN299XLY, TN299XLY, TN299XXLY toner

Safety data sheet number: YT407-01

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

### 1.1. Product identifier

Safety data sheet number YT407-01

Product Name TN229Y, TN229XLY, TN229XXLY, TN229RY, TN219Y, TN219XLY,

TN219XXLY, TN248Y, TN248XLY, TN249Y, TN252PY, TN258Y, TN258XLY, TN259Y, TN259Y, TN258Y, TN258Y, TN258Y, TN259Y, TN259Y

TN269Y, TN269XLY, TN269XXLY, TN279Y, TN279XLY, TN279XXLY, TN289Y,

TN289XLY, TN299Y, TN299XLY, TN299XXLY toner

Other means of identification

Pure substance/mixture Mixture

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

Recommended use 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 safety data sheet

#### **Manufacturer**

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

### <u>Supplier</u>

(Europe)

Brother International (Nederland) B.V.

Zanderij 25, 1185 ZM Amstelveen, The Netherlands

Brother International Europe Ltd.

1 Tame Street, Audenshaw, Manchester M34 5JE, UK Telephone (for information): +44-161-330-6531

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)

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Safety data sheet number: YT407-01

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

### Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### **Hazard statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

97.6 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

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

#### 2.3. Other hazards

No information available.

**Endocrine Disruptor Information**This product does not contain any known or suspected endocrine disruptors.

# SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	CAS No.	EC No (EU	EC Index No	Weight-%	Classificatio	Specific	M-Factor	M-Factor	REACH
		Index No)			n according	concentrati		(long-term)	registration
					to	on limit			number
					Regulation	(SCL)			
					(EC) No.				
					1272/2008				
					[CLP]				
Styrene-acrylate-c	25767-47-9	607-806-7		80-90	No data	-	-	-	Not

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opolymer				available				applicable
Pigment	**	-	3-10	No data	-	-	-	Registered
				available				
Fatty acid ester	**	-	2-8	No data	-	-	-	Registered
				available				
PMMA	9011-14-7	618-466-4	1-3	No data	-	-	-	Not
				available				applicable
Silicon dioxide	112945-52-5	601-216-3	=<1.5	No data	-	-	-	Registered
(amorphous)				available				
Styrene-acrylate	**	-	=<1.5	No data	-	-	-	Not
Resin				available				applicable
Zinc stearate	557-05-1	209-151-9	=<0.5	No data	-	-	-	Registered
				available				

<sup>\*\*</sup> CONFIDENTIAL

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

### **Acute Toxicity Estimate**

No information available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General advice If symptoms persist, call a physician.

**Inhalation** Remove to fresh air. Get immediate medical advice/attention.

**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.

**Self-protection of the first aider** No information available.

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

Symptoms 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

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Safety data sheet number: YT407-01

**Effects of Exposure** No information available.

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

**Note to physicians**Treat symptomatically.

# SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable Extinguishing Media** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable extinguishing media Do not use water jet.

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

Specific hazards arising from the

chemical

May form explosive dust clouds in air

Hazardous combustion products No information available.

5.3. Advice for firefighters

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 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

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

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Safety data sheet number: YT407-01

## 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, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

### 7.3. Specific end use(s)

### Specific use(s)

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.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### **Exposure Limits**

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Safety data sheet number: YT407-01

Chemical name	European Union	Austria	Belgium	Bul	garia	Croatia	
PMMA 9011-14-7	-	-	-	TWA: 20	0.0 mg/m <sup>3</sup>	-	
Silicon dioxide (amorphous) 112945-52-5	-	TWA: 4 mg/m <sup>3</sup>	-		-	-	
Zinc stearate 557-05-1	-	-	-	-		TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	
Chemical name	Cyprus	Czech Republic	Denmark	Est	tonia	Finland	
Zinc stearate 557-05-1	-	1	-		-	TWA: 10 mg/m <sup>3</sup>	
Chemical name	France	Germany TRGS	Germany DFG	Gre	eece	Hungary	
Silicon dioxide (amorphous) 112945-52-5	-	-	TWA: 0.5 mg/m <sup>3</sup> Ceiling / Peak: 4 mg/m <sup>3</sup>		-	-	
Zinc stearate 557-05-1	TWA: 10 mg/m <sup>3</sup>	1	-		-		
Chemical name	Ireland	Italy MDLPS	Italy AIDII	La	ıtvia	Lithuania	
Zinc stearate 557-05-1	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>	-	-	-		-	
Chemical name	Portugal	Romania	Slovakia	Slovenia		Spain	
Zinc stearate 557-05-1	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	-		TWA: 10 mg/m <sup>3</sup>	
Chemical name	Sı	weden	Switzerland			ted Kingdom	
Zinc stearate 557-05-1		-	TWA: 3 mg/m <sup>3</sup>	3	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>		

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers No information available

Derived No Effect Level (DNEL) - General Public No information available.

Predicted No Effect Concentration (PNEC) No information available.

### 8.2. Exposure controls

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Safety data sheet number: YT407-01

**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 Safety goggles

Hand protection Protective gloves

**Skin and body protection** If there is a risk of contact:, Apron, Boots

**Respiratory protection** Use appropriate respiratory protection.

Thermal hazards No information available.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Avoid release to the environment.

# SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical statePowderColoryellowOdorOdorless.

Odor threshold No information available

Property Values Remarks • Method

Melting point / freezing point 110 °C None known Initial boiling point and boiling No information available None known

range

Flammability No information available None known

Flammability Limit in Air

**Upper flammability or explosive** No information available

limits

Lower flammability or explosive No information available

limits

Flash point No information available None known **Autoignition temperature** No information available None known **Decomposition temperature** No information available None known No information available None known pH (as aqueous solution) No information available None known Kinematic viscosity No information available None known

Dynamic viscosity

No information available
Water solubility

Insoluble in water

Solubility(ies) No data available None known

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None known

None known



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Partition coefficientNo information availableNone knownVapor pressureNo information availableNone knownRelative density1.15None known

Bulk density
No information available
Liquid Density
No information available

Relative vapor density No information available None known

Particle characteristics

Particle Size No information available
Particle Size Distribution No information available

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

**Explosives** 

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

Oxidizing properties No information available

**9.2.2. Other safety characteristics**No information available None known

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No information available.

10.4. Conditions to avoid

**Conditions to avoid** Keep away from heat. Avoid friction, sparks, or other means of ignition.

10.5. Incompatible materials

Incompatible materials Strong oxidizing agents

#### 10.6. Hazardous decomposition products

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Product Name: TN229Y, TN229XLY, TN229XXLY, TN229VY, TN229RY, TN219Y, TN219XLY, TN219XLY, TN248Y, TN248Y, TN249Y, TN252PY, TN258Y, TN258XLY, TN259Y, TN269Y, TN269XLY, TN269XLY, TN279Y, TN279Y, TN279XLY, TN279XLY, TN279XLY, TN279XLY, TN299Y, TN299XLY, TN299XLY, TN299XXLY toner

Safety data sheet number: YT407-01

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

# SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Information on likely routes of exposure

#### **Product Information**

Inhalation Acute  $LC_{50} > 5.21 \text{ mg/l (4-hr) (OECD 436 method)}$ 

**Eye contact** No information available.

**Skin contact** No information available.

Ingestion Acute LD<sub>50</sub> > 2000 mg/kg (OECD 423 method)

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

## Acute toxicity

#### **Numerical measures of toxicity**

97.6 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

## **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Silicon dioxide (amorphous)	= 3160 mg/kg	-	-
Zinc stearate	> 10 g/kg	> 2000 mg/kg	> 200 mg/L 1 h

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

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

Serious eye damage/eye irritation Non-irritant (OECD 405 method)

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# brother at your side

# SAFETY DATA SHEET

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

Carcinogenicity No information available

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

## 11.2. Information on other hazards

## 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

# SECTION 12: Ecological information

## 12.1. Toxicity

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

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

## 12.2. Persistence and degradability

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Product Name: TN229Y, TN229XLY, TN229XXLY, TN229VY, TN229RY, TN219Y, TN219XLY, TN219XXLY, TN248Y, TN248XLY, TN249Y, TN252PY, TN258Y, TN258XLY, TN259Y, TN269Y, TN269XLY, TN269XXLY, TN279Y, TN279XLY, TN279XXLY, TN289Y, TN289XLY, TN299Y, TN299XLY, TN299XXLY toner

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Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

Component Information

Chemical name	Partition coefficient	
Zinc stearate	4.64	

#### 12.4. Mobility in soil

Mobility in soil No information available.

Mobility No information available.

#### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment This product contains no substance considered to be persistent, bioaccumulating nor toxic

This product contains no substance considered to be very persistent nor very

bioaccumulating (vPvB).

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

## 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Waste from residues/unused

products

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.

Contaminated packaging Do not reuse empty containers.

# SECTION 14: Transport information

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Product Name: TN229Y, TN229XLY, TN229XXLY, TN229VY, TN229RY, TN219Y, TN219XLY, TN219XXLY, TN248Y, TN248XLY, TN249Y, TN252PY, TN258Y, TN258XLY, TN259Y, TN269Y, TN269XLY, TN269XXLY, TN279Y, TN279XLY, TN279XXLY, TN289Y, TN289XLY, TN299Y, TN299XLY, TN299XXLY toner

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## <u>IATA</u>

14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated Not applicable 14.5 Environmental hazards

14.6 Special precautions for user

**Special Provisions** None

## IMDG

14.1 UN number or ID number Not regulated Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special precautions for user **Special Provisions** 

None

14.7 Maritime transport in bulk No information available

according to IMO instruments

## RID

14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special precautions for user

**Special Provisions** None

## ADR

14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated Not regulated 14.3 Transport hazard class(es) 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special precautions for user

**Special Provisions** None

# SECTION 15: Regulatory information

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

#### **European Union**

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# brother at your side

# SAFETY DATA SHEET

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Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

## Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

## **Persistent Organic Pollutants**

Not applicable

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### **International Inventories**

**TSCA** Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies Complies **ENCS IECSC** Complies KECL Complies **PICCS** Complies **AICS** Complies **NZIoC** Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

## 15.2. Chemical safety assessment

Chemical Safety Report No chemical safety assessment has been carried out

## SECTION 16: Other information

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Revision Number: 2

Product Name: TN229Y, TN229XLY, TN229XXLY, TN229VY, TN229RY, TN219Y, TN219XLY, TN219XXLY, TN248Y, TN248XLY, TN249Y, TN252PY, TN258Y, TN258XLY, TN259Y, TN269Y, TN269XLY, TN269XLY, TN279Y, TN279Y, TN279XLY, T

Safety data sheet number: YT407-01

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

Legend

SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

+ Sensitizers

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	On basis of test data
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	On basis of test data
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	On basis of test data
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

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Revision Number: 2

Product Name: TN229Y, TN229XLY, TN229XXLY, TN229VY, TN229RY, TN219Y, TN219XLY, TN219XXLY, TN248Y, TN248XLY, TN249Y, TN252PY, TN258Y, TN258XLY, TN259Y, TN269Y, TN269XLY, TN269XLY, TN279Y, TN279Y, TN279XLY, TN279XLY, TN279XLY, TN299Y, TN299XLY, TN299XLY, TN299XXLY toner

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Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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Revision date 24-Aug-2023

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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Product Name: TN229BK, TN229XLBK, TN229XXLBK, TN229VBK, TN229RBK, TN229XLBK 2PK, TN219BK, TN219XLBK, TN219XXLBK, TN248BK, TN248XLBK, TN249BK, TN252PBK, TN258BK, TN258XLBK, TN259BK, TN258XLBK 2PK, TN269BK, TN269XLBK, TN269XXLBK, TN279BK, TN279XLBK, TN279XXLBK, TN289BK, TN289XLBK, TN299XLBK, TN299XXLBK toner

Safety data sheet number: PT407-01

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

#### 1.1. Product identifier

Safety data sheet number PT407-01

**Product Name** TN229BK, TN229XLBK, TN229XXLBK, TN229VBK, TN229RBK, TN229XLBK 2PK,

TN219BK, TN219XLBK, TN219XXLBK, TN248BK, TN248XLBK, TN249BK, TN252PBK,

TN258BK, TN258XLBK, TN259BK, TN258XLBK 2PK, TN269BK, TN269XLBK, TN269XXLBK, TN279BK, TN279XLBK, TN279XXLBK, TN289BK, TN289XLBK,

TN299XLBK, TN299XXLBK toner

Other means of identification

Pure substance/mixture Mixture

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

Recommended use These products are black 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 safety data sheet

#### Manufacturer

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

#### Supplier

(Europe)

Brother International (Nederland) B.V.

Zanderij 25, 1185 ZM Amstelveen, The Netherlands

Brother International Europe Ltd.

1 Tame Street, Audenshaw, Manchester M34 5JE, UK Telephone (for information): +44-161-330-6531

For further information, please contact

sds.info@brother.co.jp E-mail address

## 1.4. Emergency telephone number

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Emergency Telephone CHEMTREC +1-703-527-3887 (International)

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

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### **Hazard statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

89.3 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

**Unknown aquatic toxicity**Contains 0.4 % of components with unknown hazards to the aquatic environment.

#### 2.3. Other hazards

No information available.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

# SECTION 3: Composition/information on ingredients

## 3.1 Substances

Not applicable

#### 3.2 Mixtures

	Chemical name	CAS No.	EC No (EU	EC Index No	Weight-%	Classificatio	Specific	M-Factor	M-Factor	REACH
			Index No)			n according	concentrati		(long-term)	registration
1						to	on limit			number
1						Regulation	(SCL)			
1						(EC) No.				
						1272/2008				

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TN289BK, TN289XLBK, TN299XLBK, TN299XXLBK toner

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				[CLP]				
Styrene-acrylate-c opolymer	25767-47-9	607-806-7	60-70	No data available	-	-	-	Not applicable
Fatty acid ester	**	-	10-15	No data available	-	-	-	Registered
Carbon Black (bound)	1333-86-4	215-609-9	5-10	No data available	-	-	-	01-2119384 822-32-XX XX
Styrene-acrylate Resin	**	-	4-8	No data available	-	-	-	Not applicable
PMMA	9011-14-7	618-466-4	1-3	No data available	-	-	-	Not applicable
Silicon dioxide (amorphous)	112945-52-5	601-216-3	=<1.5	No data available	-	-	-	Registered
Silicon Dioxide (amorphous)	7631-86-9	231-545-4	=<1	No data available	-	-	-	01-2119379 499-16-XX XX
Zinc stearate	557-05-1	209-151-9	=<0.5	No data available	-	-	-	Registered

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

## **Acute Toxicity Estimate**

No information available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General advice** If symptoms persist, call a physician.

**Inhalation** Remove to fresh air. Get immediate medical advice/attention.

**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.

**Self-protection of the first aider** No information available.

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

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TN289BK, TN289XLBK, TN299XLBK, TN299XXLBK toner

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**Symptoms** 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

**Effects of Exposure** No information available.

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

**Note to physicians** Treat symptomatically.

# SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable Extinguishing Media** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable extinguishing media Do not use water jet.

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

Specific hazards arising from the

chemical

May form explosive dust clouds in air

#### 5.3. Advice for firefighters

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

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filter type A/P may be appropriate.

#### 6.2. Environmental precautions

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

## 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, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

#### 7.3. Specific end use(s)

#### Specific use(s)

These products are black ink in a cartridge for Brother Industries, Ltd. inkjet multifunction devices and fax receivers. The cartridge should be used as supplied by Brother and for use in the products stated.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

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Product Name: TN229BK, TN229XLBK, TN229XXLBK, TN229VBK, TN229RBK, TN229XLBK 2PK, TN219BK, TN219XLBK, TN219XXLBK, TN248BK, TN248XLBK, TN249BK, TN252PBK, TN258BK, TN258XLBK, TN258XLBK, TN258XLBK, TN259BK, TN258XLBK, TN269XKLBK, TN279XLBK, TN279XLBK, TN279XXLBK, TN279XXLBK

TN289BK, TN289XLBK, TN299XLBK, TN299XXLBK toner

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# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Carbon Black (bound)	-	-	-	-	TWA: 3.5 mg/m <sup>3</sup>
1333-86-4					STEL: 7 mg/m <sup>3</sup>
PMMA	-	-	-	TWA: 20.0 mg/m <sup>3</sup>	-
9011-14-7					
Silicon dioxide	-	TWA: 4 mg/m <sup>3</sup>	-	-	-
(amorphous) 112945-52-5					
Silicon Dioxide	TWA 0.1 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>	_	TWA: 0.1 mg/m <sup>3</sup>	_
(amorphous)	respirable fraction	TVVA. + mg/m	_	TWA. 0.1 mg/m	_
7631-86-9					
Zinc stearate	-	-	-	-	TWA: 10 mg/m <sup>3</sup>
557-05-1					TWA: 4 mg/m <sup>3</sup>
<u> </u>					STEL: 20 mg/m <sup>3</sup>
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Carbon Black (bound) 1333-86-4	-	-	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>
Silicon Dioxide	_		_	TWA: 2 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
(amorphous)	-	-	_	I WA. 2 mg/m	TWA: 0.05 mg/m <sup>3</sup>
7631-86-9					TWA: 0.1 mg/m <sup>3</sup>
Zinc stearate	-	-	-	-	TWA: 10 mg/m <sup>3</sup>
557-05-1					
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Carbon Black (bound)	TWA: 3.5 mg/m <sup>3</sup>	-	-	-	TWA: 3 mg/m <sup>3</sup>
1333-86-4			T14/4 0.5 / 3		
Silicon dioxide (amorphous)	-	-	TWA: 0.5 mg/m <sup>3</sup> Ceiling / Peak: 4	-	-
112945-52-5			mg/m <sup>3</sup>		
Silicon Dioxide	_	TWA: 4 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	-	_
(amorphous)			Ceiling / Peak: 4		
` 7631-86-9 <sup>´</sup>			mg/m³		
Zinc stearate	TWA: 10 mg/m <sup>3</sup>	-	-	-	-
557-05-1					1.14
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Carbon Black (bound) 1333-86-4	TWA: 3 mg/m <sup>3</sup>	-	-	-	-
Silicon Dioxide	STEL: 15 mg/m <sup>3</sup> TWA: 6 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	_	TWA: 1 mg/m <sup>3</sup>	_
(amorphous)	TWA: 6 mg/m <sup>3</sup>	i vvA. U. i ilig/ili	_	TWA: 1 mg/m <sup>3</sup>	_
7631-86-9	STEL: 18 mg/m <sup>3</sup>			. **/ 1. 0.1 1119/111	
	STEL: 7.2 mg/m <sup>3</sup>				
Zinc stearate	TWA: 10 mg/m <sup>3</sup>	-	-	-	-
557-05-1	TWA: 4 mg/m <sup>3</sup>				

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TN289BK, TN289XLBK, TN299XLBK, TN299XXLBK toner

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	OT-	1 40 / 2	T		ı		T
		L: 12 mg/m <sup>3</sup>					
		L: 20 mg/m <sup>3</sup> L: 30 mg/m <sup>3</sup>					
Chemical name		xembourg	Malta	Netherlands	Ne	orway	Poland
•	LU	Rembourg	iviaita	Netherialius			
Carbon Black (bound) 1333-86-4		-	-	-		3.5 mg/m <sup>3</sup> : 7 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>
Silicon Dioxide		-	-	TWA: 0.75 mg/m <sup>3</sup>		1.5 mg/m <sup>3</sup>	-
(amorphous)						: 3 mg/m <sup>3</sup>	
7631-86-9							
Chemical name		Portugal	Romania	Slovakia	Slo	venia	Spain
Carbon Black (bound)	TW	'A: 3 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup>		-	TWA: 3.5 mg/m <sup>3</sup>
1333-86-4				TWA: 10 mg/m <sup>3</sup>			
Silicon Dioxide		: 0.05 mg/m <sup>3</sup>	-	-		4 mg/m <sup>3</sup>	-
(amorphous)	TWA	\: 0.1 mg/m <sup>3</sup>			TWA: (	0.1 mg/m <sup>3</sup>	
7631-86-9							
Zinc stearate	TW	4: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-		-	TWA: 10 mg/m <sup>3</sup>
557-05-1							
Chemical name		Sı	weden	Switzerland			ted Kingdom
Carbon Black (bound	l)		-	-		TWA: 3.5 mg/m <sup>3</sup>	
1333-86-4						STEL: 7 mg/m <sup>3</sup>	
Silicon Dioxide (amorph	ous)		-	TWA: 4 mg/m <sup>3</sup>		TWA: 6 mg/m <sup>3</sup>	
7631-86-9						TWA: 2.4 mg/m <sup>3</sup>	
						TWA: 0.1 mg/m <sup>3</sup>	
							EL: 18 mg/m <sup>3</sup>
							L: 7.2 mg/m <sup>3</sup>
Zinc stearate			-	TWA: 3 mg/m <sup>3</sup>			'A: 10 mg/m <sup>3</sup>
557-05-1							VA: 4 mg/m <sup>3</sup>
							EL: 20 mg/m <sup>3</sup>
						STE	EL: 12 mg/m <sup>3</sup>

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers No information available

Derived No Effect Level (DNEL) - General Public No information available.

Predicted No Effect Concentration (PNEC) No information available.

## 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

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event of large spill), the following should be applied:

Eye/face protection Safety goggles

Hand protection Protective gloves

**Skin and body protection** If there is a risk of contact:, Apron, Boots

**Respiratory protection**Use appropriate respiratory protection.

**Thermal hazards** No information available.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Avoid release to the environment.

# SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Powder
Color black
Odor Odorless.

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing point110 °CNone knownInitial boiling point and boilingNo information availableNone known

range

Flammability No information available None known Flammability Limit in Air None known

Upper flammability or explosive No information available

limits

Lower flammability or explosive No information available

limits

Flash point

Autoignition temperature

Decomposition temperature

No information available

None known

pH (as aqueous solution)

No information available

None known

Water solubility Insoluble in water

Solubility(ies)No data availableNone knownPartition coefficientNo information availableNone knownVapor pressureNo information availableNone known

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TN289BK, TN289XLBK, TN299XLBK, TN299XXLBK toner

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Relative density 1.15 None known

Bulk density No information available Liquid Density No information available

Relative vapor density

No information available

None known

Particle characteristics

Particle Size No information available
Particle Size Distribution No information available

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

**Explosives** 

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

Oxidizing properties No information available

**9.2.2.** Other safety characteristics
No information available None known

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

## 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

10.4. Conditions to avoid

**Conditions to avoid** Keep away from heat. Avoid friction, sparks, or other means of ignition.

10.5. Incompatible materials

Incompatible materials Strong oxidizing agents

## 10.6. Hazardous decomposition products

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Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx).

# SECTION 11: Toxicological information

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Information on likely routes of exposure

#### **Product Information**

Inhalation Acute  $LC_{50} > 5.94 \text{ mg/l (4-hr) (OECD 436 method)}$ 

**Eye contact** No information available.

**Skin contact** No information available.

Ingestion Acute LD<sub>50</sub> > 2000 mg/kg (OECD 423 method)

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Acute toxicity

**Numerical measures of toxicity** 

89.3 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

**Component Information** 

Component information				
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Carbon Black (bound)	> 15400 mg/kg	-	> 4.6 mg/m <sup>3</sup> 4 h	
Silicon dioxide (amorphous)	con dioxide (amorphous) = 3160 mg/kg		-	
Silicon Dioxide (amorphous)	ilicon Dioxide (amorphous) = 7900 mg/kg (Rat)		> 58.8 mg/L (Rat)4 h	
Zinc stearate	> 10 g/kg	> 2000 mg/kg	> 200 mg/L 1 h	

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Non-irritant (OECD 404 method)

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Serious eye damage/eye irritation Non-irritant (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 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. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association

between toner exposure and tumor development in rats

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

## 11.2. Information on other hazards

## 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

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TN289BK, TN289XLBK, TN299XLBK, TN299XXLBK toner

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# SECTION 12: Ecological information

## 12.1. Toxicity

## **Ecotoxicity**

Unknown aquatic toxicity

Contains 0.4 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Silicon Dioxide	EC50: =440mg/L (72h,	LC50: =5000mg/L (96h,	-	EC50: =7600mg/L (48h,
(amorphous)	Pseudokirchneriella	Brachydanio rerio)		Ceriodaphnia dubia)
	subcapitata)			·

#### 12.2. Persistence and degradability

Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

**Bioaccumulation** 

There is no data for this product.

## Component Information

Chemical name	Partition coefficient	
Zinc stearate	4.64	

## 12.4. Mobility in soil

**Mobility in soil** No information available.

**Mobility** No information available.

## 12.5. Results of PBT and vPvB assessment

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. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

## 12.7. Other adverse effects

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No information available.

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Waste from residues/unused products

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.

**Contaminated packaging** Do not reuse empty containers.

# **SECTION 14: Transport information**

#### IATA

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

## <u>IMDG</u>

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

14.7 Maritime transport in bulk No information available according to IMO instruments

## RID

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

#### **ADR**

14.1 UN number or ID number Not regulated

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14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

# SECTION 15: Regulatory information

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

## National Regulations

#### **France**

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number		
Carbon Black (bound) - 1333-86-4	RG 16,RG 16bis		
Silicon Dioxide (amorphous) - 7631-86-9	RG 25		

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

ſ	Chemical name	Restricted substance per REACH	Substance subject to authorization per
- 1		Annex XVII	REACH Annex XIV
Ī	Carbon Black (bound) - 1333-86-4	75.	-

#### **Persistent Organic Pollutants**

Not applicable

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

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TN289BK, TN289XLBK, TN299XLBK, TN299XXLBK toner

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## International Inventories

**TSCA** Complies **DSL/NDSL** Complies Complies **EINECS/ELINCS ENCS** Complies Complies **IECSC** Complies **KECL** Complies **PICCS AICS** Complies **NZIoC** Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

## 15.2. Chemical safety assessment

Chemical Safety Report No chemical safety assessment has been carried out

# 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:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

## Legend SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

+ Sensitizers

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	On basis of test data
Acute inhalation toxicity - gas	Calculation method

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	Ta
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	On basis of test data
Skin corrosion/irritation	On basis of test data
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	On basis of test data
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

## Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,

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transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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