

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

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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

E-mail address

sds.info@brother.co.jp

1.4. Emergency telephone number



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 Revision date: 24-Aug-2023 Issuing Date: 13-Sep-2021 Revision Number: 2

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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
					to	on limit			number
					Regulation	(SCL)			
					(EC) No.				
					1272/2008				



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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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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 me	edical attention and special treatment needed				
Note to physicians	Treat symptomatically.				

SECTION 5: Firefighting measures

5.1. Extinguishing media	
Suitable Extinguishing Media	Dry chemical, CO ₂ , water spray or regular foam.
Unsuitable extinguishing media	Do not use water jet.
5.2. Special hazards arising from th	e 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 conta	ainment 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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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 ³
1333-86-4					STEL: 7 mg/m ³
PMMA	-	-	-	TWA: 20.0 mg/m ³	-
9011-14-7		-			
Silicon dioxide	-	TWA: 4 mg/m ³	-	-	-
(amorphous)					
112945-52-5		T \A/A, A,,/		TIMA: 0.4	
Silicon Dioxide (amorphous)	TWA 0.1 mg/m ³ respirable fraction	TWA: 4 mg/m ³	-	TWA: 0.1 mg/m ³	-
7631-86-9	respirable fraction				
Zinc stearate	_	-	_	_	TWA: 10 mg/m ³
557-05-1					TWA: 4 mg/m ³
					STEL: 20 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Carbon Black (bound)	-	-	TWA: 3.5 mg/m ³	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³
1333-86-4				-	STEL: 7 mg/m ³
Silicon Dioxide	-	-	-	TWA: 2 mg/m ³	TWA: 5 mg/m ³
(amorphous)					TWA: 0.05 mg/m ³
7631-86-9					TWA: 0.1 mg/m ³
Zinc stearate	-	-	-	-	TWA: 10 mg/m ³
557-05-1 Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Carbon Black (bound)	TWA: 3.5 mg/m ³	Germany TKGS	Germany DFG	Greece	TWA: 3 mg/m ³
1333-86-4	TWA. 5.5 mg/m		-	-	TWA. 5 Mg/m
Silicon dioxide	-	-	TWA: 0.5 mg/m ³	-	-
(amorphous)			Ceiling / Peak: 4		
112945-52-5 Silicon Dioxide		TWA: 4 mg/m ³	mg/m ³ TWA: 0.5 mg/m ³		
(amorphous)	-	TVVA: 4 mg/m°	Ceiling / Peak: 4	-	-
7631-86-9			mg/m ³		
Zinc stearate	TWA: 10 mg/m ³	-	-	-	-
557-05-1					
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Carbon Black (bound)	TWA: 3 mg/m ³	-	-	-	-
1333-86-4	STEL: 15 mg/m ³				
Silicon Dioxide	TWA: 6 mg/m ³	TWA: 0.1 mg/m ³	-	TWA: 1 mg/m ³	-
(amorphous)	TWA: 2.4 mg/m ³			TWA: 0.1 mg/m ³	
7631-86-9	STEL: 18 mg/m ³				
7in a at	STEL: 7.2 mg/m ³				
Zinc stearate 557-05-1	TWA: 10 mg/m ³	-	-	-	-
557-05-T	TWA: 4 mg/m ³			l	



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	STE STE	L: 12 mg/m ³ L: 20 mg/m ³ L: 30 mg/m ³					
Chemical name	Lu	xembourg	Malta	Netherlands	No	orway	Poland
Carbon Black (bound) 1333-86-4		-	-	-	STEL:	3.5 mg/m ³ 7 mg/m ³	TWA: 4 mg/m ³
Silicon Dioxide (amorphous) 7631-86-9		-	-	TWA: 0.75 mg/m ³		l.5 mg/m ³ 3 mg/m ³	-
Chemical name		Portugal	Romania	Slovakia	Slo	venia	Spain
Carbon Black (bound) 1333-86-4	TW	'A: 3 mg/m ³	-	TWA: 2 mg/m ³ TWA: 10 mg/m ³		-	TWA: 3.5 mg/m ³
Silicon Dioxide (amorphous) 7631-86-9		: 0.05 mg/m ³ \: 0.1 mg/m ³	-	-		4 mg/m ³).1 mg/m ³	-
Zinc stearate 557-05-1	TW	4: 10 mg/m ³	TWA: 10 mg/m ³	-		-	TWA: 10 mg/m ³
Chemical name		SI	weden	Switzerland		United Kingdom	
Carbon Black (bound 1333-86-4	4)		-	-			A: 3.5 mg/m ³ EL: 7 mg/m ³
Silicon Dioxide (amorphous) 7631-86-9		-		TWA: 4 mg/m ³		TWA: 6 mg/m ³ TWA: 2.4 mg/m ³ TWA: 0.1 mg/m ³ STEL: 18 mg/m ³ STEL: 7.2 mg/m ³	
Zinc stearate 557-05-1		-		TWA: 3 mg/m ³		TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 20 mg/m ³ STEL: 12 mg/m ³	

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							
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		None known						
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						
pH	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	None known						
Water solubility	Insoluble in water							
Solubility(ies)	No data available	None known						
Partition coefficient	No information available	None known						
Vapor pressure	No information available	None known						



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Relative density Bulk density	1.15 No information available	None known
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 No information available. Reactivity 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 (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

motoms related to the physical	chemical and toxicological characteristics
Ingestion	Acute LD ₅₀ > 2000 mg/kg (OECD 423 method)
Skin contact	No information available.
Eye contact	No information available.
Inhalation	Acute $LC_{50} > 5.94 \text{ mg/l}$ (4-hr) (OECD 436 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

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Carbon Black (bound)	> 15400 mg/kg	-	> 4.6 mg/m³ 4 h
Silicon dioxide (amorphous)	= 3160 mg/kg	-	-
Silicon Dioxide (amorphous)	= 7900 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 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	<u>8 </u>	
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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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 microorganisms	Crustacea
Silicon Dioxide (amorphous)	EC50: =440mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =5000mg/L (96h, Brachydanio rerio)	-	EC50: =7600mg/L (48h, Ceriodaphnia dubia)

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	Not regulated
14.1		Not regulated
14.2	UN proper shipping name	Not regulated
	Transport hazard class(es)	Not regulated
14.4 14.5	Packing group Environmental hazards	Not regulated
		Not applicable
14.6	Special precautions for user	None
Э	pecial Provisions	None
IMDG	i	
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	
S	pecial Provisions	None
14.7	Maritime transport in bulk	No information available
1.411		
	rding to IMO instruments	
	-	
accor <u>RID</u>	-	
accor <u>RID</u> 14.1	-	Not regulated
accor <u>RID</u> 14.1 14.2	rding to IMO instruments UN number or ID number UN proper shipping name	Not regulated
accor <u>RID</u> 14.1	ding to IMO instruments UN number or ID number UN proper shipping name Transport hazard class(es)	Not regulated Not regulated
accor <u>RID</u> 14.1 14.2 14.3 14.4	ding to IMO instruments UN number or ID number UN proper shipping name Transport hazard class(es) Packing group	Not regulated Not regulated Not regulated
accor <u>RID</u> 14.1 14.2 14.3	ding to IMO instruments UN number or ID number UN proper shipping name Transport hazard class(es)	Not regulated Not regulated
Accor <u>RID</u> 14.1 14.2 14.3 14.4 14.5 14.6	UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special precautions for user	Not regulated Not regulated Not regulated Not applicable
Accor <u>RID</u> 14.1 14.2 14.3 14.4 14.5 14.6	UN number or ID number UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards	Not regulated Not regulated Not regulated
accol <u>RID</u> 14.1 14.2 14.3 14.4 14.5 14.6 S	UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special precautions for user	Not regulated Not regulated Not regulated Not applicable
accol <u>RID</u> 14.1 14.2 14.3 14.4 14.5 14.6 S <u>ADR</u>	UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special precautions for user pecial Provisions	Not regulated Not regulated Not regulated Not applicable None
accol <u>RID</u> 14.1 14.2 14.3 14.4 14.5 14.6 S	UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special precautions for user	Not regulated Not regulated Not regulated Not applicable



Product Name: TN229BK, TN229XLBK, TN229XXLBK, TN229VBK, TN229RBK, TN229XLBK 2PK, TN219BK, TN219XLBK, TN219XXLBK, TN248BK, TN248XLBK, TN249BK, TN252PBK, TN258BK, TN258XLBK, TN259BK, TN258XLBK 2PK, TN269BK, TN269XLBK, TN269XXLBK, TN279KLBK, TN279XXLBK, TN289BK, TN289XLBK, TN299XLBK, TN299XXLBK toner Revision date: 24-Aug-2023 Issuing Date: 13-Sep-2021 Revision Number: 2

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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

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)

Chemical name	Restricted substance per REACH	Substance subject to authorization pe	
	Annex XVII	REACH Annex XIV	
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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International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
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

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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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

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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 **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,



Product Name: TN229BK, TN229XLBK, TN229XXLBK, TN229VBK, TN229RBK, TN229XLBK 2PK, TN219BK, TN219XLBK, TN219XXLBK, TN248BK, TN248XLBK, TN249BK, TN252PBK, TN258BK, TN258XLBK, TN259BK, TN258XLBK 2PK, TN269BK, TN269XLBK, TN269XXLBK, TN279KLBK, TN279XXLBK, TN289BK, TN289XLBK, TN299XLBK, TN299XXLBK toner Revision date: 24-Aug-2023 Issuing Date: 13-Sep-2021 Revision Number: 2

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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



Product Name: TN229C, TN229XLC, TN229XXLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XXLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XLC, TN279C, TN279XLC, TN279XLC, TN279XXLC, TN289C, TN289XLC, TN299C, TN299XLC, TN299XLC toner

Revision date: 24-Aug-2023 Issuing Date: 12-Sep-2013 Revision Number: 2

Safety data sheet number: CT413-04

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

1.1. Product identifier

CT413-04 Safety data sheet number

Product Name

TN229C, TN229XLC, TN229XXLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XXLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XXLC, TN279C, TN279XLC, TN279XXLC, 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.

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)

Uses advised against No information available



Product Name: TN229C, TN229XLC, TN229XLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XLC, TN219XLC, TN248C, TN248C, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XLC, TN279C, TN279XLC, TN279XLC, TN279XLC, TN289XLC, TN289XLC, TN299XLC, TN299XLC, TN299XLC toner

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Safety data sheet number: CT413-04

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]

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

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



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Product Name: TN229C, TN229XLC, TN229XLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XLC, TN219XLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XLC, TN279C, TN279XLC, TN279XLC, TN279XLC, TN289C, TN289XLC, TN299XLC, TN299XLC toner

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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

** 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



Product Name: TN229C, TN229XLC, TN229XLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XLC, TN219XLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XLC, TN279C, TN279XLC, TN279XLC, TN279XLC, TN299XLC, TN29YXLC, T

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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 me	dical attention and special treatment needed
Note to physicians	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO₂, 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 May form explosive dust clouds in air chemical

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	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Prevent substance entering sewers. Washings must be prevented from entering surface



Product Name: TN229C, TN229XLC, TN229XLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XLC, TN219XLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XLC, TN279C, TN279XLC, TN279XLC, TN279XLC, TN289C, TN289XLC, TN299XLC, TN299XLC toner

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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, inc	cluding 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



Product Name: TN229C, TN229XLC, TN229XLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XLC, TN219XLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XLC, TN279C, TN279XLC, TN279XLC, TN279XLC, TN289C, TN289XLC, TN299C, TN299XLC, TN299XLC toner

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Exposure Limits

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

Biological occupational exposure This product established

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.



Product Name: TN229C, TN229XLC, TN229XLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XLC, TN279C, TN279XLC, TN279XXLC, TN289C, TN289XLC, TN299XLC, TN29YXLC, TN

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SECTION 9: Physical and chemical properties

<u>9.1. Information on basic physical a</u> Physical state Color Odor Odor threshold	nd chemical properties Solid Powder cyan Odorless. No information available	
Property_	<u>Values</u>	Remarks • Method
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 limits	No information available	
Lower flammability or explosive limits	No information available	
Flash point	No information available	
Autoignition temperature	No information available	None known
Decomposition temperature	No information available	None known
pH	No information available	
pH (as aqueous solution)	No information available	None known
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Water solubility	Insoluble in water	
Solubility(ies)	No information available	None known
Partition coefficient	No information available	None known
Vapor pressure	No information available	
Relative density	No information available	None known
Bulk density	No information available	
Liquid Density	No information available	
Relative vapor density	No information available	
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



Product Name: TN229C, TN229XLC, TN229XLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XLC, TN219XLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XLC, TN279C, TN279XLC, TN279XLC, TN279XLC, TN289C, TN289XLC, TN299XLC, TN299XLC toner

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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 impac Sensitivity to static discharge	t None. None.	
10.3. Possibility of hazardous reacti	ons	
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 (CO ₂). 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 $LC_{50} > 5.24$ mg/l (4-hr) (OECD 436 method)
Eye contact	No information available.
Skin contact	No information available.
Ingestion	Acute LD ₅₀ > 2000 mg/kg (OECD 420 method)



Product Name: TN229C, TN229XLC, TN229XLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XLC, TN219XLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XLC, TN279C, TN279XLC, TN279XLC, TN279XLC, TN299XLC, TN29YXLC, T

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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 documentATEmix (dermal)99,999.00mg/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.



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

TN219XLC, TN219XXLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN259C, TN269XLC, TN269XXLC, TN279C, TN279XLC, TN279XLC, TN279XXLC, TN289C, TN289XLC, TN299C, TN299XLC, TN299XXLC toner

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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 hazard	ls	
11.2.1. Endocrine disrupting prop	perties	
Endocrine disrupting properties	No information available.	
11.2.2. Other information		
Other adverse effects	No information available.	
SECTION 12: Ecological in	nformation	
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 degradabilit	<u>v</u>	
Persistence and degradability	No information available.	
12.3. Bioaccumulative potential		
Bioaccumulation	No information available.	
<u>12.4. Mobility in soil</u>		
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	



Product Name: TN229C, TN229XLC, TN229XLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XLC, TN219XLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XLC, TN279C, TN279XLC, TN279XLC, TN279XLC, TN289C, TN289XLC, TN299XLC, TN299XLC, TN299XLC toner

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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	
S	pecial Provisions	None
IMDG	<u>i </u>	
14.1	UN number or ID number	Not regulated
14.1 14.2	UN number or ID number UN proper shipping name	Not regulated Not regulated
		U U
14.2	UN proper shipping name	Not regulated
14.2 14.3	UN proper shipping name Transport hazard class(es)	Not regulated Not regulated
14.2 14.3 14.4	UN proper shipping name Transport hazard class(es) Packing group	Not regulated Not regulated Not regulated
14.2 14.3 14.4 14.5 14.6	UN proper shipping name Transport hazard class(es) Packing group Environmental hazards	Not regulated Not regulated Not regulated
14.2 14.3 14.4 14.5 14.6	UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special precautions for user	Not regulated Not regulated Not regulated Not applicable

RID



Product Name: TN229C, TN229XLC, TN229XLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XLC, TN219XLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XLC, TN279C, TN279XLC, TN279XLC, TN279XLC, TN289C, TN289XLC, TN299C, TN299XLC, TN299XLC toner

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

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



Product Name: TN229C, TN229XLC, TN229XLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XLC, TN219XLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269XLC, TN269XLC, TN279XLC, TN279XLC, TN279XLC, TN299XLC, TN299XLC, TN299XLC toner

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International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
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

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	*
+	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

Skin designation



Product Name: TN229C, TN229XLC, TN229XXLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XXLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XXLC, TN279C, TN279XLC, TN279XXLC, TN289C, TN289XLC, TN299C, TN299XLC, TN299XXLC toner

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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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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



Product Name: TN229C, TN229XLC, TN229XLC, TN229VC, TN229RC, TN219C, TN219XLC, TN219XLC, TN219XLC, TN248C, TN248XLC, TN249C, TN252PC, TN258C, TN258XLC, TN259C, TN269C, TN269XLC, TN269XLC, TN279C, TN279XLC, TN279XLC, TN279XLC, TN299XLC, TN299XLC, TN299XLC toner

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materials or in any process, unless specified in the text. End of Safety Data Sheet



Product Name: TN229M, TN229XLM, TN229XXLM, TN229VM, TN229RM, TN219M, TN219XLM, TN219XLM, TN248M, TN248XLM, TN249M, TN252PM, TN258M, TN258XLM, TN259M, TN269XLM, TN269XLM, TN279M, TN279XLM, TN279XLM, TN279XLM, TN289M, TN289XLM, TN299MLM, TN299XLM, TN299XLM toner

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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, TN229XLM, TN229VM, TN229RM, 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.

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)

Uses advised against No information available



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

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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]

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

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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 available	-	-	-	Registered
Pigment	**	-	3-10	No data available	-	-	-	Registered
Styrene-acrylate Resin	**	-	1-3	No data available	-	-	-	Not applicable
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

** 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



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

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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 me	dical attention and special treatment needed
Note to physicians	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO₂, 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 May form explosive dust clouds in air chemical

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	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Do not flush into surface water or sanitary sewer system.



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

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6.3. Methods and material for containment and cleaning up

Methods for containment	Sweep the spilt toner or remove it with a vacuum cleaner and transfer into a sealed container carefully. Sweep slowly to minimize generation of dust during cleanup. If a vacuum cleaner is used, the motor must be rated as dust explosion proof. Potential for very fine particles to be taken into the vacuum only to be passed back into the environment due to pore size in the bag or filter.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Keep out of the reach of children. Avoid generation of dust. Avoid inhalation of high concentrations of dust. Avoid contact with eyes.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage Conditions	Keep 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



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

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Exposure Limits

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

Biological occupational exposure This pr limits establis

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.



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

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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	
Property	<u>Values</u>	Remarks • Method
Melting point / freezing point	No information available	None known
Initial boiling point and boiling	No information available	None known
range		
Flammability	No information available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No information available	
Lower flammability or explosive limits	No information available	
Flash point	No information available	None known
Autoignition temperature	No information available	None known
Decomposition temperature	No information available	None known
рН	No information available	None known
pH (as aqueous solution)	No information available	
Kinematic viscosity	No information available	None known
Dynamic viscosity	No information available	None known
Water solubility	Insoluble in water	
Solubility(ies)	No information available	None known
Partition coefficient	No information available	None known
Vapor pressure	No information available	None known
Relative density	No information available	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



Product Name: TN229M, TN229XLM, TN229XXLM, TN229VM, TN229RM, TN219M, TN219XLM, TN219XLM, TN248M, TN248XLM, TN249M, TN252PM, TN258M, TN258XLM, TN259M, TN269XLM, TN269XLM, TN279M, TN279XLM, TN279XLM, TN279XLM, TN289M, TN289XLM, TN299MLM, TN299XLM, TN299XLM toner

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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 impac Sensitivity to static discharge	t None. None.
10.3. Possibility of hazardous reacti	ons
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 pro	ducts
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 mg/l/4h (OECD 436 method)
Eye contact	No information available.
Skin contact	No information available.
Ingestion	Acute LD ₅₀ > 2000 mg/kg (OECD 420 method)



Product Name: TN229M, TN229XLM, TN229XXLM, TN229VM, TN229RM, TN219M, TN219XLM, TN219XLM, TN248M, TN248XLM, TN249M, TN252PM, TN258M, TN258XLM, TN259M, TN269M, TN269XLM, TN269XLM, TN279M, TN279XLM, TN279XLM, TN279XLM, TN289M, TN289XLM, TN299MLM, TN299XLM, TN299XLM toner

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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 documentATEmix (dermal)99,999.00mg/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 hazard	ls
11.2.1. Endocrine disrupting prop	perties
Endocrine disrupting properties	No information available.
11.2.2. Other information	
Other adverse effects	No information available.
SECTION 12: Ecological in	nformation
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	<u>v</u>
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.
<u>12.5. Results of PBT and vPvB ass</u>	essment
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	
S	pecial Provisions	None
IMDG	<u>i </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	
S	pecial Provisions	None
14.7	Maritime transport in bulk	No information available
accor	rding to IMO instruments	

RID



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

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14.1 14.2 14.3 14.4 14.5 14.6	UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special precautions for user	Not regulated Not regulated Not regulated Not regulated Not applicable
S	pecial Provisions	None
<u>ADR</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	
S	pecial 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
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

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)

1 4 4 / 1		OILL	
Ceiling	Maximum limit value	*	Skin designation
+	Sensitizers		c

Method Used
Calculation method
Calculation method
Calculation method
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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Safety data sheet number: YT407-01

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

1.1. Product identifier

YT407-01 Safety data sheet number

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

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.

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)

Uses advised against No information available



Product Name: TN229Y, TN229XLY, TN229XXLY, TN229VY, TN229RY, TN219Y, TN219XLY, TN219XLY, TN219XLY, TN248Y, TN248Y, TN249Y, TN252PY, TN258Y, TN258XLY, TN259Y, TN269Y, TN269XLY, TN269XLY, TN279Y, TN279XLY, TN279XLY, TN279XLY, TN289YLY, TN289XLY, TN299Y, TN299XLY, TN299XLY toner

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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]

97.6 % 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 available	-	-	-	Registered
Fatty acid ester	**	-	2-8	No data available	-	-	-	Registered
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
Styrene-acrylate Resin	**	-	=<1.5	No data available	-	-	-	Not applicable
Zinc stearate	557-05-1	209-151-9	=<0.5	No data available	-	-	-	Registered

** 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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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, CO₂, 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 May form explosive dust clouds in air chemical
- 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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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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Chemical name	European Union	Austria	Belgium	Bul	garia	Croatia
PMMA 9011-14-7	-	-	-	TWA: 20).0 mg/m ³	-
Silicon dioxide (amorphous) 112945-52-5	-	TWA: 4 mg/m ³	-		-	-
Zinc stearate 557-05-1	-	-	-		-	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 20 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Est	tonia	Finland
Zinc stearate 557-05-1	-	-	-		-	TWA: 10 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Gre	eece	Hungary
Silicon dioxide (amorphous) 112945-52-5	-	-	TWA: 0.5 mg/m ³ Ceiling / Peak: 4 mg/m ³		-	-
Zinc stearate 557-05-1	TWA: 10 mg/m ³	-	-		-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	La	itvia	Lithuania
Zinc stearate 557-05-1	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 12 mg/m ³ STEL: 20 mg/m ³ STEL: 30 mg/m ³	-	-		-	-
Chemical name	Portugal	Romania	Slovakia	Slov	venia	Spain
Zinc stearate 557-05-1	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-		-	TWA: 10 mg/m ³
Chemical name	S	weden	Switzerland	United Kingdom		ted Kingdom
Zinc stearate 557-05-1		-	TWA: 3 mg/m ³		TV STE	'A: 10 mg/m ³ VA: 4 mg/m ³ EL: 20 mg/m ³ EL: 12 mg/m ³

Biological occupational exposure 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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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

s.r. information on basic physical a	ina chemical properties	
Physical state	Powder	
Color	yellow	
Odor	Odorless.	
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		None known
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
pH	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	None known
Water solubility	Insoluble in water	
Solubility(ies)	No data available	None known



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Partition coefficient	No information available	None known
Vapor pressure	No information available	None known
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	
E L	

Explosive properties **Oxidizing properties**

Explosive limits of toner particles suspended in air approximately equal to that of coal dust 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 Sensitivity to static discharge	t None. 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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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 ₅₀ > 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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Respiratory or skin sensitization	It is not a skin sensitizer (OECD 429 method)	
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 prop	erties	
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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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.
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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

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



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

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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	
S	pecial Provisions	None
<u>IMDG</u>	<u>.</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	
S	pecial Provisions	None
14.7	Maritime transport in bulk	No information available
accor	rding 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	
S	pecial Provisions	None
ADR		
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	
S	pecial 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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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
ENCS	Complies
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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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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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

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End of Safety Data Sheet