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Product Name: TONER TN117

SDS No.:MFP-0315-2

Prepared Date:1-May-2009 Revised Date: 18-May-2021

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: TONER TN117

used for: bizhub 185/185e/184/7818/7818e/7718/164/185en/7818en

Supplier Identification:

Konica Minolta, Inc. 2-7-2, Marunouchi, Chiyoda-ku, Tokyo, 100-7015, JAPAN Telephone: +81-42-660-9409 Facsimile: +81-42-660-9417

[China]

This product is not a hazardous chemical under Regulation on Safe Management of Hazardous Chemicals in China(Decree 591).

2. HAZARDS IDENTIFICATION

Regulation (EC) No 1272/2008

Classification: Not classified as dangerous.

Hazard Communication Standard (USA)

Classification: Not classified as dangerous.

LABEL ELEMENTS

Precautionary pictograms:	
Signal word:	
Hazard Statement:	
Precautionary Statements:	

Other Hazards

Dust explosion (like most finely divided organic powders).



Ρı	roduct Name	: TONER TN117			
				-	Date:1-May-2009
				Revised I	Date: 18-May-2021
3.	COMPOSITIC	ON / INFORMATION O	N INGR	EDIENTS	
	Substance []	Preparation	n[X]		
	Major Ingredient	S:			
	[Generic I	Name]		[CAS No.]	[%]
	Styrene a	icrylic resin		+++	75-85
	Wax			+++	5-15
	Carbon bl	lack		1333-86-4	1-10
	Wax-2			+++	1-10
	Amorpho	us silica		7631-86-9	1-10
	+++: Supplier's cor	nfidential information			
		dianta			
	Hazardous Ingre	ne: Carbon black			
		: 1333-86-4			
			DE	ACH Registration number: (1 2110201022 22 VVVV
EINECS-No.: 215-609-9 NTP(USA): Not listed			C Monographs: Group 2B	JI-211930 4 022-32-7777	
	· ·	Proposition 65(USA): Listed		C Monographs. Group 2D	
		C): Not applicable		G-MAK(GER): III 3B	
			D		
4.	FIRST-AID	MEASURES			
	•	Vash out mouth with water. E ttention.	Drink one or	two glasses of water. If syr	nptoms occur, get medical
	Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.		l attention.		
	Eye Contact: I	mmediately flush eyes with	plenty of	water for 15 minutes. If sy	mptoms occur, get medical
	ä	attention.			
	Skin Contact: V	Nash with water and mild so	ap.		
5.	FIRE-FIGHTI	NG MEASURES			
	Suitable Extinguis	shing Media: CO2, water spr	ay, foam ar	nd dry chemical	
		dia to Avoid: Full water jet			
	Fire and Explosio	n Hazards: If dispersed in ai	r, like most	finely divided organic powd	ers, may form an explosive

mixture.

Protection of Firefighters: Use self-contained breathing apparatus(SCBA).



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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment(See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

7. HANDLING AND STORAGE

Handling

Technical Measures:NonePrecautions:Do not breathe dust. Avoid contact with eyes.Safe Handling Advice:Try not to disperse the particulates.StorageTechnical Measures:NoneStorage Conditions:Storage Conditions:Keep container closed. Store in a cool and dry place. Keep out of reach of children.Incompatible Products:NonePackaging Materials:Bottles or Cartridge designated by Konica Minolta.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures				
Ventilation: N	ne required with intended use.			
Control Parameters (As total dust)				
ACGIH-TLV (USA):	10mg/m3 (Inhalable particles), 3.0 mg/m3 (Respirable particles)			
OSHA-PEL (USA):	15mg/m3 (Total dusts), 5.0 mg/m3 (Respirable fraction)			
DFG-MAK (GER):	4mg/m3 (Inhalable fraction), 1.5mg/m3 (Respirable fraction)			
Safe Work Australia-	WA: 10mg/m3			
Control Parameters (As In	redients: Carbon black)			
ACGIH-TLV (USA):	3mg/m3			
OSHA Z-Table (USA)	3.5mg/m3			
Safe Work Australia-7	WA: 3mg/m3			
Personal Protective Equip	nent			

Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State: Solid	Color: Black
Form: Powder (mean dia. is 5-10 um by volume	e)
Odor:	Almost odorless
PH	Not applicable
Boiling Point(°C):	Not applicable
Melting Point(°C)/[F]:	Around No data available /[] (Softening Point)
Flash Point(°C):	Not applicable
Auto-Ignition Temperature(°C):	No data available
Upper/ lower flammability or explosive limits	No data available
Explosion Properties:	No data available
Evaporation rate:	No data available
Vapor Pressure:	Not applicable
Vapor density:	Not applicable
Specific Gravity:	1.2
Solubility:	Insoluble in water.
Partition Coefficient, n-Octanol/Water:	Not applicable
Decomposition temperature:	Not applicable

10. STABILITY AND REACTIVITY

Reactivity:	None.	
Stability:	Stable except above 200C(392F).	
Hazardous Reactions:	Dust explosion, like most finely divided organic powders.	
Conditions to avoid:	Electric discharge, throwing into fire.	
Materials to Avoid:	Oxidizing materials.	
Hazardous Decomposition Products: CO, CO2, NOx and smoke.		
Hazardous Polymerization:	Will not occur.	



SAFETY DATA SHEET

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity:		
Ingestion(oral), LD50(mg/kg):	>2500(Rat) *	
Dermal, LD50(mg/kg):	No data available	
Inhalation, LC50(mg/l):	>5.17(Rat,4hour) *	
(This was the highest attainable concentration.)		
Eye irritation:	Minimal irritant(Rabbit) *	
Skin irritation:	Mild irritant(Rabbit) *	
Skin sensitizer:	Non sensitizer (Guinea pig) *	
Local Effects: see Chronic Toxicity or Long term Toxicity		

Clean Ellects: see Childhic Toxicity of Eding term in

Chronic Toxicity or Long Term Toxicity:

In a two-year inhalation study of chronic toxicity and carcinogenicity using a typical toner in rats, there were no lung changes at all in the lowest exposure level (1mg/m3), the most relevant level to potential human exposures. A minimal to mild degree of fibrosis was noted in 22% of the animals at the middle exposure level (4mg/m3), and a mild to moderate degree of fibrosis was observed in 92% of the rats at the highest exposure level(16mg/m3). The lung changes observed in the higher exposure groups are interpreted in terms of "lung overloading", a series of generic responses to the presence of large quantities of respirable, insoluble and relatively benign dusts retained for extended time periods in the lungs. Lung tumor frequency was unchanged among rats exposed to toner at the three exposure levels, and for air-only control rats.

Carcinogenicity

The IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This evaluation is given to Carbon Black for which there is inadequate human evidence, but sufficient animal evidence. The latter 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 have not demonstrated an 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.

 Mutagenicity:
 Negative(AMES test)

 Teratogenicity:
 No data available

 (*= Based on data for other Konica Minolta Products with similar ingredients)

12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

Ecotoxicity:No data availableMobility:No data availablePersistenceandBioaccumulative potential:No data available

13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.



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14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations UN Classification: None Further information: Not a dangerous good under IATA or IMDG. Hazchem code (Austl.): None

15. REGULATORY INFORMATION

US Information

TSCA (Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

Ingredient carbon black subject to California Proposition 65 is bound in polymer-matrices so that warnings are not required.

CERCLA(Comprehensive Environmental Response Compensation and Liability Act) :

None.

SARA Title III (Superfund Amendments and Reauthorization Act) 302 Extreme Hazardous Substance : None.

311/312 Hazard Categories :

None.

313 Reportable Ingredients :

None.

EU Information

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

• Regulation (EC) No 2037/2000 of the European Parliament and of the Council on Substances That Deplete the Ozone Layer: Not applicable

• Regulation (EU) 2019/1021 of the European Parliament and of the Council on Persistent Organic Pollutants (POPs): Not applicable

• Regulation (EU) No 649/2012 of the European Parliament and of the Council on Concerning the Export and Import of Dangerous Chemicals (PIC): Not applicable

• Directive 2012/18/EU of the European Parliament and of the Council on the Control of Major-Accident Hazards Involving Dangerous Substances, Amending and Subsequently Repealing Council Directive 96/82/EC, (Seveso III): Not applicable

• Regulation (EC) No 1907/2006 of the European Parliament and of the Council:

- Annex XIV- List of Substances Subject To Authorization: Not applicable
- Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

For this product a chemical safety assessment was not carried out.



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16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0 IARC 2B means "possible human carcinogen". Explanation of term: Abbreviations: ACGIH-TWA: Threshold Limit Value of American Conference of Government Industrial Hygienists CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act DFG-MAK: Maximale Arbeitsplatz-Konzentration by Deutsche Forschuugsgemeinschaft DGR: Dangerous Goods Regulations EINECS: European Inventory of Existing Commercial Chemical Substances H-Code: Hazard Code HMIS: Hazardous Materials Identification System IARC: International Agency for Research on Cancer IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods Code NTP: National Toxicology Program **OEL: Occupational exposure limit** OSHA: Occupational Safety and Health Administration PBT: Persistent, Bioaccumulative and Toxic SARA: Superfund Amendments and Reauthorization Act **TSCA: Toxic Substances Control Act** vPvB: very Persistent and very Bioaccumulative Revision Information: Regular revision on revised date. Literature References: ANSI Z400.1-1993 ISO 11014-1 Commission Directive 91/155/EEC IARC(2010): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93, Carbon Black, Titanium Dioxide, and Talc, Lyon, pp. 43-191 H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299. Restrictions: The above information is believed to be accurate and represents the best information currently available to

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