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SDS No.: MFP-5045

Product Name: DEVELOPER DV616C

Prepared date:9-Mar-2012 Revised Date: 28-Feb-2022

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

Product Name: DEVELOPER DV616C

used for: bizhub PRESS C1100/C1085, AccurioPress C6100/C6085

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).



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Product Na	ame: DEVELOPER DV616C		
		_	date:9-Mar-2012
		Revised Da	ate: 28-Feb-2022
3. COMPOS	SITION / INFORMATION ON IN	GREDIENTS	
Substance	[ ] Preparation [X]		
Major Ingr	edients:		
	ieric Name]	[CAS No.]	[%]
Ferri	-	1309-37-1	60-70
	Manganese oxide	1344-43-0	15-25
	Magnesium oxide	1309-48-4	1-10
Styre	ene-acrylic resin	+++	1-10
-	l resin	+++	1-10
-	anic pigment	147-14-8	<1
-	prohous silica	7631-86-9	<1
		7031-00-3	
CA	al Name: Manganese oxide S No.: 1344-43-0 ode(EC): Not applicable <b>D MEASURES</b>	EINECS-No.: 215-695-8	
_	Wash out mouth with water. Drink on	o or two glossos of water. If symp	tomo occur, got modical
Ingestion:	attention.	le of two glasses of water. It symp	ions occui, gel medical
Inhalation:	Move victim to fresh air immediately.	If symptoms occur, det medical a	ttention
Eye Contact	•	, i i i i i i i i i i i i i i i i i i i	
Skin Contact			eeed, germealed adonaer
	ľ		
	HTING MEASURES		
	nguishing Media: CO2, water spray, foar	m and dry chemical	
•	g Media to Avoid: Full water jet		c i i
Fire and Exp	olosion Hazards: If dispersed in air, like m	nost finely divided organic powders	s, may form an explosive
	mixture.		
Protection of	Firefighters: Use self-contained bre	athing 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: None

Precautions: Do not breathe dust. Avoid contact with eyes.

Safe Handling Advice: Try not to disperse the particulates.

Storage

Technical Measures: None

Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children. Incompatible Products: None

Incompatible Floducts. None

Packaging Materials: Bottles or Cartridge designated by Konica Minolta.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Measures** Ventilation: None 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-TWA: 10mg/m3 Control Parameters (As Ingredients: Manganese oxide) ACGIH-TLV(USA): 0.1mg/m3(Mn;Inharable Fraction) 0.02mg/m3(Mn;Respirable Fraction) OSHA Z-Tables(USA):ceiling 5mg/m3

Safe Work Australia-TWA: 1mg/m3

Personal Protective Equipment

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: Cyan	
Form: Powder (mean dia. is 30-40 um by volume)		
Odor:	Almost odorless	
PH	Not applicable	
Boiling Point(°C):	Not applicable	
Melting Point(°C):	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:	5.0	
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, and smoke.
Hazardous Polymerization:	Will not occur.



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### 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion(oral), LD50(mg/kg):	>2000 (Rat) *
Dermal, LD50(mg/kg):	No data available
Inhalation, LC50(mg/l):	No data available
Eye irritation:	No data available
Skin irritation:	No data available
Skin sensitizer:	No data available
	· <u> </u>

Local Effects: see Chronic Toxicity or Long term Toxicity

Chronic Toxicity or Long Term Toxicity:

Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust.

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of rats in the high concentration(16mg/m<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle(4mg/m<sup>3</sup>) exposure group. But no pulmonary change was reported in the lowest(1mg/m<sup>3</sup>) exposure group, the most relevant level to potential human exposures.

Carcinogenicity

IARC Monographs:	Not listed	
NTP(USA):	Not listed	
OSHA Regulated(USA):	Not listed	
Mutagenicity:	Negative * (AMES test)	
Teratogenicity:	No data available	
Descriptions de la familia de la construction de la		

(\*= 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 available
Mobility:		No data available
Persistence an	d degradability:	No data available
Bioaccumulative	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:

This product contains no chemical substances subject to California Proposition 65.

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
Explanation of term: IARC 2B means "possible human carcinogen".
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:

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