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SDS No.: MFP-3545

Product Name: DEVELOPER DV311Y

Prepared date:19-Jan-2009 Revised Date: 18-Jun-2021

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

Product Name: DEVELOPER DV311Y used for: bizhub C360/C280/C220

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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					828 NO III 8010
Pr	oduct Name: DEVELO	PER DV311Y			
				-	date:19-Jan-2009
				Revised	Date: 18-Jun-2021
3.	COMPOSITION / INFOR		INGREDIENTS		
	Substance []	Preparation [X]		
	Major Ingredients:				
	[Generic Name]		[C	AS No.]	[%]
	Ferrite Iron oxide			1309-37-1	65-75
	. Manganese	oxide		1344-43-0	5-15
	. Magnesium	oxide		1309-48-4	5-15
	Styrene-acrylic resin			+++	1-10
	Acryl resin			+++	1-10
	+++: Supplier's confidential in	formation			
	Hazardous Ingredients:				
	Chemical Name: Mangan	lese oxide			
	CAS No.: 1344-43-0		EINECS-No.: 2	15-695-8	
	H code(EC): Not app	licable			
-					
4.	FIRST-AID MEASURE	-			
	•	itn with water. Drink	one or two glasses	s of water. If sy	mptoms occur, get medical
	attention.	for all all increased in the			the set of a
		fresh air immediate		•	
		, , ,	of water for 15 mini	utes. It symptor	ns occur, get medical attention.
	Skin Contact: Wash with wa	ter and mild soap.			
5.	FIRE-FIGHTING MEAS	SURES			
	Suitable Extinguishing Media:	CO2, water spray, fo	bam and dry chem	ical	
	Extinguishing Media to Avoid:	Full water jet	-		
	Fire and Explosion Hazards: If	•	most finely divided	d organic powo	lers, may form an explosive
		nixture.	,	0 1	
		Use self-contained b	preathing apparatu	s(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

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: Yellow			
Form: Powder (mean dia. is 30-40 um by volu	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:	4.6			
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):	No data available
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

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/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle(4mg/m³) exposure group. But no pulmonary change was reported in the lowest(1mg/m³) 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:	No data available (AMES test)		
Teratogenicity:	No data available		
Paged on data for other Kanica Minalta Draduata with similar ingradiant			

(*= 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 and	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:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.