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SDS No.: MFP-3941

Product Name: DEVELOPER DV614K

Prepared Date:15-Oct-2011 Revised Date: 28-Feb-2022

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

Product Name: DEVELOPER DV614K

used for: bizhub PRESS C1070/C1060, PRO C1060L, AccurioPress C2070/C2060, AccurioPrint C2060L, AccurioPress C3080/C3070, AccurioPrint C3070L, AccurioPress C4080/C4070, AccurioPrint C4065

Supplier Identification:

Konica Minolta Business Solutions Australia Pty. Ltd. 4 Drake Avenue, Macquarie Park, NSW 2113, Australia Telephone: (02) - 8026 - 2222

Contact Point

National Technical Support Telephone: 1800 625 935 e-mail address : nts@konicaminolta.com.au For emergency enquiries, please contact Konica Minolta Australia during Monday to Friday from 8:30am - 5.00pm (AEST)

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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3. COMPOSITION / INFORM	ATION ON	I INGREDIE	NTS	
Substance []	Preparation	[X]		
Major Ingredients:				
[Generic Name]			[CAS No.]	[%]
Ferrite Iron oxide			1309-37-1	60-70
. Manganese ox	ide		1344-43-0	15-25
. Magnesium oxi	de		1309-48-4	1-10
Styrene-acrylic resin			+++	1-10
Acryl resin			+++	1-10
Carbon black			1333-86-4	<1
Amorphous silica			7631-86-9	< 1
+++: Supplier's confidential information	otion			
Hazardous Ingredients: Chemical Name: Carbon blac CAS No.: 1333-86-4	k			
EINECS-No.: 215-609-9		REACH Registration number: 01-2119384822-32-XXXX		
NTP(USA): Not listed		IARC Mon	ographs: Group 2B	
California Proposition 65	. ,			
H code(EC): Not applicat		DFG-MAK	(GER): III 3B	
Chemical Name: Manganese CAS No.: 1344-43-0	oxide		lo.: 215-695-8	
H code(EC): Not applical	blo	EINECS-N	10 213-093-0	
4. FIRST-AID MEASURES				
Ingestion: Wash out mouth attention.	with water. Dr	ink one or two g	lasses of water. If s	ymptoms occur, get medical
Inhalation: Move victim to free	esh air immedi	iately. If symptor	ns occur, get medic	cal attention.
Eye Contact: Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.				
Skin Contact: Wash with water	and mild soap	p.		-
	DES			
5. FIRE-FIGHTING MEASU		v foom and dry	ohomiaal	
Suitable Extinguishing Media: CC Extinguishing Media to Avoid: Fu		y, ioann and dry		
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Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, 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: Nor	Ventilation: None required with intended use.			
Control Parameters (As tota	l 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-TV	VA: 10mg/m3			
Control Parameters (As Ing	edients: Carbon black)			
ACGIH-TLV (USA):	3mg/m3			
OSHA Z-Table (USA):	3.5mg/m3			
Safe Work Australia-TV	VA: 3mg/m3			
Control Parameters (As Ingr	edients: Manganese oxide)			
ACGIH-TLV(USA): 0.1mg/m3(Mn;Inharable Fraction)				
().02mg/m3(Mn;Respirable Fraction)			
OSHA Z-Tables(US	A):ceiling 5mg/m3			
Safe Work Australia-T	WA: 1mg/m3(Mn)			
Personal Protective Equipm	ent			
Not required under no	rmal conditions. For use other thar	in normal operating procedures (such as in the		
event of large spill), go	ggles and respirators may be require	ed.		
Hygiene Measures: Wa	ish hands after handling.			



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State: Solid	Color: Black
Form: Powder (mean dia. is 30-40 um by volun	ne)
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:	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
(This was the highest attaina	ble concentration.)
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:

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 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:

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 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.