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SDS No.: MFP-5665

Product Name: DEVELOPER DV629K

Prepared Date:20-Jun-2019 Revised Date: 22-Dec-2021

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

Product Name: DEVELOPER DV629K used for: AccurioPress C7100/ C7090

Supplier Identification:

Konica Minolta, Inc.

2-7-2, Marunouchi, Chiyoda-ku, Tokyo, 100-7015, JAPAN Telephone: +81-42-660-9409 Facsimile: +8

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 Name: DEVELOPER DV62	29K		
		_	Date:20-Jun-2019
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	ON INGREDIEN	ITS	
Substance [ ] Preparation	on [X]		
Major Ingredients:			
[Generic Name]		[CAS No.]	[%]
Ferrite Iron oxide		1309-37-1	60-70
. Manganese oxide		1344-43-0	15-25
. Magnesium oxide		1309-48-4	1-10
Styrene acrylic resin		+++	1-10
Acryl resin		+++	1-10
Polyester resin		+++	1-10
Carbon black		1333-86-4	<1
Amorphous silica		7631-86-9	<1
+++: Supplier's confidential information			
CAS No.: 1333-86-4 EINECS-No.: 215-609-9 NTP(USA): Not listed California Proposition 65(USA): Liste H code(EC): Not applicable Chemical Name: Manganese oxide	IARC Mono DFG-MAK(	graphs: Group 2B GER): III 3B	1-2119384822-32-XXXX
CAS No.: 1344-43-0	EINECS-No	o.: 215-695-8	
H code(EC): Not applicable			
4. FIRST-AID MEASURES Ingestion: Wash out mouth with water.	Drink one or two gla	isses of water. If syr	mptoms occur, get medical
attention.	12 - 4 - 14 - 1 <b>4</b> - 1		1 - 44 - 12 - 12 - 12
Inhalation: Move victim to fresh air imme Eye Contact: Immediately flush eyes wit attention.		-	
Skin Contact: Wash with water and mild se	oap.		
5. FIRE-FIGHTING MEASURES			
	you foom and drive	homical	
Suitable Extinguishing Media: CO2, water sp Extinguishing Media to Avoid: Full water jet	hay, ioan and dry c		
Extinguishing Media to Avolu. Full water jet	air lika maatfirati -"		lava may farme are avele
File and Exclosion mazards. It dispersed in a	au like mosi îineiv di	VIDED OF CADIC DOW/O	IELS THAY JOHN AN EXPLOSIVE

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

### 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: Carbon black) ACGIH-TLV (USA): 3mg/m3 OSHA Z-Table (USA): 3.5mg/m3 Safe Work Australia-TWA: 3mg/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(Mn) 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: Black			
Form: Powder (mean dia. is 30-40 um by volume)				
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:	No data available			
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

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: Teratogenicity: Negative \* (AMES test) 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 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**

The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0 HMIS Rating: 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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