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SDS No.: MFP-3494

Product Name: DEVELOPER DV612K

Prepared Date:25-Apr-2008 Revised Date: 14-Oct-2022

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

1.1. Product identifier

Product Name: DEVELOPER DV612K

1.2. Relevant identified uses of the substance or mixture and uses advised against used for: C652/C552/C452/C652DS/C552DS/652/602/552/502

1.3. Details of the supplier of the safety data sheet

Supplier Identification:

Konica Minolta Business Solutions Europe GmbHEuropaallee 17, D-30855 Langenhagen, Germanye-mail address : env@konicaminolta.euTelephone: +49-(0)511-7404-361Facsimile: +49-(0)511-7404-396

1.4. Emergency telephone number

Information centre specialized on symptoms of poisoning Telephone: +49-30-19240

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Classification: Not classified as dangerous.

Hazard Communication Standard (USA)

Classification: Not classified as dangerous.

2.2. Label elements

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

2.3. Other hazards

Dust explosion (like most finely divided organic powders).



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3. COMPOSITIO	ON / INFORMATION	ON INGRE	DIENTS	
3.2. Mixtures				
Major Ingredient	ts:			
[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-a	acrylic resin		+++	1-10
Acryl resi	n		+++	1-10
Carbon b	lack		1333-86-4	< 1
+++: Supplier's co	nfidential information			
Hazardous Ingre	edients:			
Chemical Nar	ne: Carbon black			
CAS No.	: 1333-86-4			
EINECS-	No.: 215-609-9	REAC	CH Registration number: 0	1-2119384822-32-XXXX
NTP(US/	A): Not listed	IARC Monographs: Group 2B		
California	Proposition 65(USA): Lis	sted		
H code(E	C): Not applicable	DFG	MAK(GER): III 3B	
Chemical Nar	ne: Manganese oxide			
CAS No.	: 1344-43-0	EINE	CS-No.: 215-695-8	
H code(E	EC): Not applicable			

4. FIRST-AID MEASURES

4.1. Description of first aid measures

Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.

Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical 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.

4.2. Most important symptoms and effects, both acute and delayed

Not available.

4.3. Indication of any immediate medical attention and special treatment needed Not available.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media: CO2, water spray, foam and dry chemical Extinguishing Media to Avoid: Full water jet

5.2. Special hazards arising from the substance or mixture

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

5.3. Advice for firefighters

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



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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment (See Section 8).

6.2. Environmental precautions

None

6.3. Methods and material for containment and cleaning up

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.

6.4. Reference to other sections

None

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Technical Measures: None

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

Safe Handling Advice: Try not to disperse the particulates.

7.2. Conditions for safe storage, including any incompatibilities

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 KonicaMinolta.

7.3. Specific end use(s)

Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTIO

8.1. Control parameters

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 Ingredie	ents: 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):c	eiling 5mg/m3				
Safe Work Australia-TWA	: 1mg/m3(Mn)				



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8.2. Exposure controls

Engineering Measures

Ventilation: None required with intended use.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic 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:	5.0		
Solubility:	Insoluble in water.		
Partition Coefficient, n-Octanol/Water:	Not applicable		
Decomposition temperature:	Not applicable		
9.2. Other information			

No data available

10. STABILITY AND REACTIVITY

10.1. Reactivity

Hazardous Polymerization: Will not occur.

10.2. Chemical stability

Stable except above 200C(392F).

10.3. Possibility of hazardous reactions

Dust explosion, like most finely divided organic powders.

10.4. Conditions to avoid

Conditions to avoid: Electric discharge, throwing into fire. Materials to Avoid: Oxidizing materials.

10.5. Incompatible materials

No Information.

10.6. Hazardous decomposition products

CO, CO2, and smoke.



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11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity:

Ingestion(oral), LD50(mg/kg):	No data available	
Dermal, LD50(mg/kg):	No data available	
Inhalation, LC50(mg/l):	No data available	
(This was the highest attainable 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:

No data available (AMES test) No data available

Teratogenicity: No data available (*= Based on data for other Konica Minolta Products with similar ingredients)

11.2. Information on other hazards

No data available.



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12. ECOLOGICAL INFORMATION

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

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment No data available

- **12.6. Endocrine disrupting properties** No data available
- 12.7. Other adverse effects

No data available

13. DISPOSAL CONSIDERATION

13.1. Waste treatment methods

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

14. TRANSPORT INFORMATION

14.1. UN number or ID number

None (Not a dangerous good under IATA or IMDG.)

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

None

14.7. Maritime transport in bulk according to IMO instruments

None



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15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU Information

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

• Regulation (EC) No 1005/2009 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

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.

15.2. Chemical safety assessment

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:**

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