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Product Name: DEVELOPER DV621M

Prepared date:25-Jun-2019

Revised Date: 14-Oct-2022

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

### 1.1. Product identifier

Product Name: DEVELOPER DV621M

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

used for: bizhub C750i/C650i/C550i/C450i

### 1.3. Details of the supplier of the safety data sheet

Supplier Identification:

Konica Minolta Business Solutions Europe GmbH

Europaallee 17, D-30855 Langenhagen, Germany

e-mail address : env@konicaminolta.eu

Telephone: +49-(0)511-7404-361

Facsimile: +49-(0)511-7404-396

### 1.4. Emergency telephone number

Information centre specialized on symptoms of poisoning

Telephone: +49-30-19240

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## 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. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

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
Amorphous silica	7631-86-9	< 1

+++ : Supplier's confidential information

Hazardous Ingredients:

Chemical Name: Manganese oxide

CAS No.: 1344-43-0

EINECS-No.: 215-695-8

H code(EC): Not applicable

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### 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.

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### 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable Extinguishing Media: CO<sub>2</sub>, 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

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## 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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Control Parameters(As total dust)

ACGIH-TLV(USA): 10mg/m<sup>3</sup> (Inhalable particles), 3.0 mg/m<sup>3</sup> (Respirable particles)

OSHA-PEL(USA): 15mg/m<sup>3</sup> (Total dusts), 5.0 mg/m<sup>3</sup> (Respirable fraction)

DFG-MAK(GER): 4mg/m<sup>3</sup> (Inhalable fraction), 1.5mg/m<sup>3</sup> (Respirable fraction)

Safe Work Australia-TWA: 10mg/m<sup>3</sup>

Control Parameters (As Ingredients: Manganese oxide)

ACGIH-TLV(USA): 0.1mg/m<sup>3</sup>(Mn;Inharable Fraction)  
0.02mg/m<sup>3</sup>(Mn;Respirable Fraction)

OSHA Z-Tables(USA):ceiling 5mg/m<sup>3</sup>

Safe Work Australia-TWA: 1mg/m<sup>3</sup>

### 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical State: Solid	Color: Red
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:	No data available
Solubility:	Insoluble in water.
Partition Coefficient, n-Octanol/Water:	Not applicable
Decomposition temperature:	Not applicable

### 9.2. Other information

No data available

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## 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, CO<sub>2</sub>, 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):	>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:

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

(\*= 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

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### 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.

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### 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:

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

CERCLA(Comprehensive Environmental Response Compensation and Liability Act) :

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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

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 Forschungsgemeinschaft

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.

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