



Product Name: TONER (YELLOW)

Prepared date:19-Jul-2007

Revised Date: 22-Feb-2021

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

Product Name: TONER (YELLOW)

used for: magicolor 4650series, 4690/4695series, bizhub C20/C20P

Supplier Identification:

Konica Minolta Business Solutions Middle East FZE

P.O.Box 502399, Dubai, United Arab Emirates

Telephone: 971-(0)4-426-4650

Facsimile: 971-(0)4-426-4649

**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**

None

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Substance [ ] Preparation [ X ]

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Styrene acrylic resin	+++	75-85
Wax	+++	10-20
Organic pigment	+++	1-10
Amorphous silica	7631-86-9	1-10
Titanium dioxide	13463-67-7	< 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

- 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: Flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.
- Skin Contact: Wash with water and mild soap.
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#### 5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media: CO<sub>2</sub>, water spray, foam and dry chemical
- Extinguishing Media to Avoid: Full water jet
- Fire and Explosion Hazards: None
- 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).  
DO NOT use vacuum cleaner when a large amount is released.
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#### 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.
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**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)

Worksafe-TWA(Austl.): 10mg/m3

## Control Parameters (As Ingredients: Manganese oxide)

ACGIH-TLV(USA): 0.1mg/m3(Mn;Inhalable Fraction)

0.02mg/m3(Mn;Respirable Fraction)

OSHA Z-Tables(USA):ceiling 5mg/m3

Safe Work Australia-TWA: 1 mg/m3

## Personal Protective Equipment

Respiratory protection: Dust respirator

Hand protection: Protective gloves

Eye protection: Safety glasses

Skin protection: Protective clothing

Hygiene Measures: Wash hands after handling.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

## Appearance

Physical State: Solid

Color: Yellow

Form: Powder (mean dia. is 5-10um by volume)

Odor:

Almost odorless

PH

Not applicable

Boiling Point(°C):

Not applicable

Melting Point(°C):

Around No data available

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:

1.2

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:

No hazardous reaction known.

Conditions to avoid:

Electric discharge, throwing into fire.

Materials to Avoid:

Oxidizing materials.

Hazardous Decomposition Products: CO, CO2, NOx and smoke.

Hazardous Polymerization:

Will not occur.



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## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity:

Ingestion(oral), LD50(mg/kg):	>2500 (Rat)
Dermal, LD50(mg/kg):	No data available
Inhalation, LC50(mg/l):	>5.57 (Rat, 4hour)(This was the highest attainable concentration.)
Eye irritation:	Minimal irritant (Rabbit)
Skin irritation:	Non irritant (Rabbit)
Skin sensitizer:	Non sensitizer (Guinea pig)

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.

### 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)

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## 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

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## 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

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## 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 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

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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