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SDS No.: MFP-4552

Product Name: TONER TN328Y

Prepared date:14-Mar-2018 Revised Date: 17-Sep-2021

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

Product Name: TONER TN328Y used for: bizhub C360i/C300i/C250i

#### Supplier Identification:

Konica Minolta Business Solutions (Canada), Ltd.5875 Explorer Drive Mississauga, OntarioL4W 0E1Telephone: (866)890-6600Facsimile: (905)283-2511

Emergency Telephone No.

CHEMTREC Telephone: 1-800-424-9300

## 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 / INFORMATION ON INGREDIENTS

Substance [ ] Preparation [X]

| [CAS No.] | [%]   |
|-----------|---|
| +++       | 55-65   |
| +++       | 10-20   |
| +++       | 1-10  |
| 1309-37-1 | 1-10  |
| 1344-43-0 | 1-10  |
| 7631-86-9 | 1-10  |
| +++       | 1-10  |
|           | +++<br>+++<br>1309-37-1<br>1344-43-0<br>7631-86-9 |

+++: 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     |                       |

## 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: Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention. Skin Contact: Wash with water and mild soap.

## 5. FIRE-FIGHTING MEASURES

 Suitable Extinguishing Media: CO2, water spray, foam and dry chemical

 Extinguishing Media to Avoid: Full water jet

 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: 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.

# 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) 4mg/m3 (Inhalable fraction), DFG-MAK(GER): 1.5mg/m3 (Respirable fraction) Safe Work Australia-TWA: 10mg/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

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

# 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):
 >4.97 (Target conc.: 5) (Rat, 4hour) \*(This was the highest attainable concentration.)

 Eye irritation:
 Minimal irritant (Rabbit) \*

 Skin irritation:
 None irritant (Rabbit) \*

 Skin sensitizer:
 None sensitizer (Mouse) \*

 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      |  |
| – Deserved average to a state of Karajan Minalta Dready state with a institution in an |                        |  |

(\*= 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:    | I                | No data available |
|-----------------|------------------|-------------------|
| Mobility:       | I                | No data available |
| Persistence an  | d 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:

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

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