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SDS No.: MFP-285Z1-2

Product Name: TONER TN321AC

Prepared date:5-Jan-2022 Revised Date:

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

Product Name: TONER TN321AC used for: bizhub C364/C284/C224, C364e/C284e/C224e

Supplier Identification:

Konica Minolta Business Solutions Australia Pty. Ltd.

4 Drake Avenue, Macquarie Park, NSW 2113, Australia

Telephone: (02) - 8026 - 2222

Contact Point

National Technical Support Telephone: 1800 625 935 e-r

none: 1800 625 935 e-mail address : nts@konicaminolta.com.au

For emergency enquiries, please contact Konica Minolta

Australia during Monday to Friday from 8:30am - 5.00pm (AEST)

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: TONER TN321AC Prepared date: 5-Jan-2022 Revised Date: COMPOSITION / INFORMATION ON INGREDIENTS 3. Substance [] Preparation [X] Major Ingredients: [Generic Name] [CAS No.] [%] 60-95 Resin +++ Ferrite Iron oxide 1309-37-1 1-20 Manganese oxide 1344-43-0 1-20 1-20 Wax +++ 1-20 Organic pigment +++ Amorphous silica +++ <20 Titanium dioxide 13463-67-7 <1 +++: Supplier's confidential information Hazardous Ingredients: Chemical Name: Titanium dioxide CAS No.: 13463-67-7 EINECS-No.: 236-675-5 NTP(USA): Not listed IARC Monographs: Group 2B H code(EC): Carc. 2, H351 Chemical Name: Manganese oxide CAS No.: 1344-43-0 EINECS-No.: 215-695-8 H code(EC): Not applicable FIRST-AID MEASURES 4. 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. 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 to	otal 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: Titanium dioxide)					
ACGIH-TLV(USA	.): 10mg/m3				
OSHA Z-Tables(USA): 15mg/m3					
Safe Work Australia	Safe Work Australia-TWA: 10mg/m3				
Control Parameters (As Ir	ngredients: 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 Equi	pment				
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: Cyan
Form: Powder	
Odor:	Almost odorless
PH	Not applicable
Boiling Point(°C):	Not applicable
Melting Point(°C):	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:	No data available
Solubility:	Insoluble in water.
Partition Coefficient, n-Octanol/Water:	Not applicable
Decomposition temperature:	Not applicable

10. STABILITY AND REACTIVITY

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	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): Dermal, LD50(mg/kg): Inhalation, LC50(mg/l): Eye irritation: Skin irritation: Skin sensitizer: Not classified * No data available Not classified *(This was the highest attainable concentration.) Not classified * Not classified * Not classified *

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/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle(4mg/m³) exposure group. But no pulmonary change was reported in the lowest(1mg/m³) exposure group, the most relevant level to potential human exposures.

Carcinogenicity

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possible human carcinogen). In animal chronic inhalation studies, the tumor formulation observed in only rats with animal chronic inhalation study are 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, dose not result in inhalation of excessive dust. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.

Mutagenicity:	Negative * (AMES test)
Teratogenicity:	No data available
(*= Based on analogy with similar products or ingredients data)	

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 degradat	oility: 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 titanium dioxide 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

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0 Full text of H phrases:

Carc: Carcinogenicity

H351: Suspected of causing cancer

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. NIOSH CURRENT INTELLIGENCE BULLETIN : Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide :DRAFT 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.