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SDS No.: MFP-421Z1

Product Name: TONER TN221AY

Prepared date:29-Oct-2021 Revised Date: 11-Nov-2021

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

Product Name: TONER TN221AY used for: bizhub C287/C227, Workplace Hub

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-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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3. COMPOSITION / INFORMATION ON INGREDIENTS	6
Substance [] Preparation [X]	
Major Ingredients:	
	CAS No.] [%]
Resin	+++ 60-95
Wax	+++ 1-20
Organic pigment	+++ 1-20
Amorphous silica	+++ <20
Titanium dioxide	13463-67-7 <1
+++: Supplier's confidential information	
Hazardou e Ingradiante:	
Hazardous Ingredients: Chemical Name: Titanium dioxide	
CAS No.: 13463-67-7 EINECS-No.:	226 675 5
NTP(USA): Not listed IARC Monog H code(EC): Carc. 2, H351	raphs: Group 2B
4. FIRST-AID MEASURES	
Ingestion: Wash out mouth with water. Drink one or two glasse attention.	es of water. If symptoms occur, get medical
Inhalation: Move victim to fresh air immediately. If symptoms or	ccur get medical attention
Eye Contact: Flush eyes with plenty of water for 15 minutes. If syr	-
Skin Contact: Wash with water and mild soap.	npionio coodi, gormodiodi dicinioni
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5. FIRE-FIGHTING MEASURES	
Suitable Extinguishing Media: CO2, water spray, foam and dry chen	nical
Extinguishing Media to Avoid: Full water jet	
Fire and Explosion Hazards: If dispersed in air, like most finely divide	ed organic powders, may form an explosive
mixture.	
Protection of Firefighters: Use self-contained breathing apparatus	s(SCBA).
6. ACCIDENTAL RELEASE MEASURES	
Personal Precautions: None	
Environmental Precautions: None	
Methods for Cleaning Up: Wear personal protective equipment(Se	e Section 8). Vacuum or sween material
	lisposal. Use vacuum equipped with High
	acuum should be electrically bonded and
	avoid dust generation, do not sweep dry.
grounded to dispersibile creditory. To a	avoia adol gonoration, do not sweep dry.



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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.

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)
Safe Work Australia-TWA:	10mg/m3	
Control Parameters (As Ingredients: Titanium dioxide)		
ACGIH-TLV(USA): 10m	ng/m3 OSHA Z-Tabl	es(USA): 15mg/m3
Safe Work Australia-TWA	.: 10mg/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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State: Solid	Color: Yellow
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



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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.	

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

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

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.