

Material Safety Data Sheet
In according to the Regulation (CE) n. 1907/2006 REACH
Printing: 24/11/2010 Data sheet: B0951in Rev. n. 1 - data Rev. Date:15/01/2019

1. Identification of the Product and of the Company

Product name:	Toner Cartridge Yellow P2021 (2.8K)
Code number:	B0951
Product description:	Toner
Company name:	Olivetti S.p.A. Via Jervis 77 10015 Ivrea (TO) - ITALY
For information:	Tel. 0039 (0)125 775710 Fax 0039 (0)125 775711 e-mail : supplies@olivetti.com
For emergency:	Centro Antiveleni-Ospedale Niguarda (Milano) 0039 (0)2 66101029

2. Hazards identification

Classification: Not classified as dangerous in according to the Regulation EC n°1272/2008.

LABEL ELEMENTS

Precautionary pictograms	---
Signal word:	---
Hazard Statement:	---
Precautionary Statements	---

OTHER HAZARDS

Assessment of PBT/vPvB	No data available.
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3. **Composition/information on ingredients**

Substance [] Preparation [X]

Major ingredients:

Chemical name	Weight %	CAS number
Polyester resin (2 kinds)	75-85	+++
Organic Pigment	1-5	+++
Amorphous Silica	1-5	7631-86-9
Titanium dioxide	<1	13463-67-7

+++ : Supplier's confidential information

Chemical Name: Titanium dioxide
CAS No.: 13463-67-7 EINECS-No.: 236-675-5
IARC Monographs: Group 2B
Symbol(EC): Not listed H code(EC): Not listed

4. **First – aid measures**

Ingestion: Rinse out the mouth. Drink one or two glasses of water to dilute.

Inhalation: Remove from exposure to fresh air and gargle with plenty of water. Consult a doctor in case of such symptoms as coughing.

Eye contact: Flush with water immediately and see a doctor if irritating.

Skin contact: Wash with soap and water.

Most important symptoms and effects, both acute and delayed

Ingestion: Use of this product as intended does not result in ingestion.

Inhalation: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product as intended does not result in prolonged inhalation of excessive toner dusts.

Eye contact: May cause transient eye irritation.

Skin contact: Unlikely to cause skin irritation.



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5. Fire – fighting measures

Suitable Extinguishing Media:	CO2, water spray, foam and dry chemical.
Unsuitable Extinguishing Media:	None specified.
Hazardous combustion products:	Carbon dioxide. Carbon monoxide.
Fire-fighters procedures:	Pay attention not to blow away dust. Drain water off around and decrease the atmosphere temperature to extinguish the fire.
Protective equipment for firefighters:	None specified.
Extinguishing Media:	CO ₂ , Water (Sprinkle with water), Foam, Powder or Dry Chemical Extinguisher
Fire-Fighting Procedure:	Pay attention not to blow away toner powder. Drain water off around and decrease the atmosphere temperature to extinguish the fire.

6. Accidental release measures

Personal precautions:	Avoid inhalation, ingestion, eye and skin contact in case of accidental release. Avoid formation of dust. Provide adequate ventilation.
Environmental precautions:	Do not allow to enter into surface water or drains.
Methods for Cleaning-up:	Gather the released powder not to blow away and wipe up with a wet cloth.

7. Handling and storage

Handling:	Do not attempt to force open or destroy the toner container or unit. See installation guide of this product.
Storage:	Keep the toner container or unit tightly closed and store in a cool, dry and dark place keeping away from fire. Keep out of the reach of children
Specific end use (s)	No additional information available.



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8. Exposure controls/personal protection

Ventilation:	None required with intended use
Hygiene measures:	Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
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)
Control Parameters (As Ingredients: Titanium dioxide)	
ACGIH-TLV(USA):	10mg/m3
OSHA-PEL (USA):	15mg/m3
Control Parameters (As Ingredients: Amorphous silica)	
OSHA-PEL (USA):	80 mg/m3 /%SiO2
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.



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9. Physical and chemical properties

Physical state:	Solid
Form:	Fine Powder
Color:	Yellow
pH	No data available
Odor:	Odourless
Odor threshold	No data available
Boiling point (°C)	No data available
Melting point (°C / [F]):	100-120°C
Flash Point (°C):	No data available
Evaporation rate:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Auto-Ignition Temperature (°C)	No data available
Vapor Pressure:	No data available
Vapor density:	No data available
Relative density:	1,2 -1,4 g/cm3
Solubility:	Almost Insoluble in water
Partition Coefficient, n-Octanol/Water:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Oxidising properties:	No data available

Other information:

Dust explosion is improbable under normal intended use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.

10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	This product is stable under normal conditions of use and storage
Possibility of hazardous reactions:	Hazardous reactions will not occur.
Condition to avoid:	None specified.
Incompatible materials:	None specified.
Hazardous decomposition materials:	Hazardous decomposition materials are not to be produced.



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11. Toxicological information

Acute oral toxicity:	(rat) LD ₅₀ >2000 mg/kg (Estimated from other products containing same materials)
Acute dermal toxicity:	No data available (Toner)
Acute inhalation toxicity:	(rat) LC ₅₀ (4hr)>5.02 mg/l (Estimated from other products containing same materials)
Acute eye irritation:	(rabbit) Minimal irritant (Estimated from other products containing same materials)
Acute skin irritation:	(rabbit) Mild irritant (Estimated from other products containing same materials)
Skin sensitization:	(mouse) Non-Sensitiser (Estimated from other products containing same materials)
Mutagenicity:	Ames test is Negative
Carcinogenicity:	No carcinogen or potential carcinogen (except titanium dioxide) according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS905 and EU Directive 1272/2008 Annex VI
Chronic effects:	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.
Other information:	None

12. Ecological information

No data available.



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13. Disposal considerations

Waste treatment methods: Do not incinerate toner and toner containers. Dangerous sparks may cause burn.
Any disposal practice should be done under conditions which meet local, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).
This product is stable under normal conditions of use and storage

14. Transport information

UN number: None.
UN proper shipping name: None.
Transporter hazard class(es): None.
Packing group: None.
Environmental hazards: None.
Special precautions for user: No additional information available.
Transport in bulk according to annex II of MARPOL73/78 and the IBC Code Not applicable.

15. Regulatory information

EU regulations

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer, Annex I and Annex II: Not listed.

Regulation (EC) No 850/2004 on persistent organic pollutants, Annex I as amended: Not listed.

Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals, Annex I and Annex V as amended: Not listed.

Regulation (EC) No 1907/2006 REACH, Annex XVII as amended (Restrictions on use): Not listed.

Regulation (EC) No 1907/2006 REACH, Annex XIV as amended (Authorisations): Not listed.



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16. Other information

This Material Safety Data Sheet was prepared in according to the Regulation (CE) n. 1907/2006 REACH, Regulation EC n°1272/2008 and Regulation 830/2015.

Changes from the previous version:

- update section n. 2-3-15-16

Explanation of term: IARC 2B means "possible human carcinogen".

Abbreviations:

ACGIH-TWA: Threshold Limit Value of American Conference of Government Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

H-Code: Hazard Code

IARC: International Agency for Research on Cancer

OEL: Occupational exposure limit

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

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.

