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1. Identification of product and com	pany
1.1 Product identifier	
Product name: Product code:	Toner cartridge yellow (Y) MF3300 / MF3800 B1103
1.2 Relevant identified uses of substance or mix	xture and use advised against
Product description:	Toner cartridge yellow (Y) MF3300 / MF3800
1.3 Details of the supplier of the safety data she	eet
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 : <u>supplies@olivetti.com</u>
1.4 Emergency telephone number	
For emergency:	Center-Hospital Niguarda (Milano) 0039 (0)2 66101029



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2. Hazard identification 2.1 Classification of the substance or mixture The product is not classified as hazardous pursuant to the provisions set forth in Directives 1999/45/EC, but may have potentially effects on human health. 2.2 Label elements Not required. Simbol: Not required Phrases-R/H: Not required Phrase-S: No required **Special marking:** Not required 2.3 Other hazards None



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3. Composition and information on ingredients

3.1 Substances Information not relevant.

3.2 Mixtures

Prepared [X] Substance []

Name	% w/w	Numero CAS	EINECS numero
Styrene acrylic resin	65-75	+++	-
Ferrite Iron oxide	5-15	1309-37-1	-
Ferrite Manganese oxide	1-10	1344-43-0	-
Wax	1-10	+++	-
Organic pigment	1-10	+++	-
Amorphous silica	1-10	7631-86-9	-
Titanium dioxide	<1	13463-67-7	-



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4 First aid measures	
4.1 Description of first aid	measures
The following are the first	aid measures related to substance contained in the product
Inhalation:	Move victim to fresh air immediately. If symptoms occur, get medical attention.
Contact with skin:	Wash immediately with mild soap and water.
Contact with eyes:	Flush eyes with plenty of water for 15 minutes immediately. If symptoms occur, get medical attention.
Ingestion	Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.
	oms and effects, both acute and delayed caused by the contained substances see chapter 11
4.3 Identification of any ne Follow your doctor's direct	ed to consult your doctor ions in case of eyes irritation and if symptoms occur.



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5 Fire lighting measures	
5.1. Extinguishing media	
Extinguishing media:	CO2, water spray, foam and dry chemical. Avoid full water jet.
Special procedures to fight fire:	Wear an autorespirator and protective media.
Do not breathe combustion products	stance or mixture contained in the product d organic powders, may form an explosive mixture.
	xtinguishing water must not be discharged into drains. Dispose of nd the remains of the fire according to applicable regulations.
Equipment Hardhat with visor, fireproof clothing, a de	epressurised mask with self-contained breathing apparatus o SCBA).

	equipment and emergency procedures sures in case of accidental release of the substance contained in the product
Personal protection:	Avoid inhalation, ingestion, eye and skin contact in case of accidental developer release.
Clean-up method:	Wear personal protective equipment. Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filte Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

Do not release into drains and surface water.

6.3 Methods and materials for containment and cleaning up not applicable

Not relevant.



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7 Handling and storage

7.1 Precautions for safe handling

Handling: Do not breathe dust. Avoid contact with eyes. Keep away from the reach of children. Wash hands after handling. Try not to disperse the particulates.

7.2 Conditions for safe storage including any incompatibilities Keep container closed and store in a cool and dry place. Keep out of reach of children.

8 Ex	oosure	control	s and	personal	protection

8.1 Control parameters

Reference data:

OSHA PEL(USA): Tot	alable particles 10 mg/m ³ , Respirable particles 3 mg/m ³ tal dust 15 mg/m ³ , Respirable fraction 5 mg/m ³ nalable fraction 4 mg/m ³ , Respirable fraction 1.5 mg/m ³ 10 mg/m3
8.2 Exposure controlls	
Measurements masks	: Respiratory protection, eye protection, hand protection, skin and body protection
	are not required under normal use. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.
Personal protection:	Not required under normal use. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be requie.
Ventilation:	Not required under normal use.
Exposure Limits:	Not applicable
	excessive dust may cause lung damage. Use of this product as intended does not lation of excessive toner dust.



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9 Physical and chemical properties

9.1 Information on basic physical and chemical

Appearance:	Solid, powder, color yellow	
Odour:	Almost odorless	
pH:	Not applicable	
Boiling point:	Not applicable	
Melting point:	Around 125C(257F) (Softening Point)	
Flash point:	Not applicable	
Autoignition point:	Not applicable	
Explosive properties:	Not available	
Comburent properties:	Not applicable	
Vapour pressure:	Not applicable	
Specific Gravity	1.2	
Viscosity @ 25 °C	Not available	
Water solubility:	Insoluble	
Solubility in:	Not available	

10 Stability and reactivity

10.1 Reactivity Avoid oxidizing materials.

10.2 Chemical stability Stable except above 200C(392F).

10.3 Possibility of hazardous reactions Dust explosion, like most finely divided organic powders.

10.4 Conditions to avoid Electric discharge, throwing into fire.

10.5 Incompatible materials Oxidizing materials

10.6 Hazardous decomposition products CO, CO2, NOx and smoke.



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11 Toxicological information

It is advisable to operate in compliance with the rules of good industrial hygiene.

11.1 Toxicological Information

Acute oral toxicity: LD_{50} >2000mg/kg (rat) (based on data for other Products with similar ingredients). Acute dermal toxicity: LD_{50} = No data available.

Acute inhalation toxicity: $LC_{50}(4hr)>5,11 mg/l$ (rat) (based on data for other Products with similar ingredients). (This was the highest attainable concentration.).

Eye irritation: Minimal irritant (rabbit) (based on data for other Products with similar ingredients). Skin irritation: None irritant (rabbit) (based on data for other Products with similar ingredients). Skin sensitisation: Non-sensitiser (mouse) (based on data for other Products with similar ingredients). Mutagenicity:

Ames Test is Negative (based on data for other Products with similar ingredients).

Teratogenicity: No data available

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.

Chronic effects:

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.



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12 Ecological information

No data available.

13. Disposal considerations

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

14. Transport information

Not required.

15 Regulatory information

All chemical substances in this product comply with all applicable rules or order under TSCA.

This product contains no chemical substances subject to California Proposition 65.



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91/155EEC, CE 1907 The information cont market, and is not va This information add substitute them. Such information is b It is the user's respon To best of our Knole	nformation required as per applicable European Directives 88/379/EEC, 92/32/EEC, 7/2006, 2001/58EC and following upgrades. rained herein relates only to the referred product as manufactured and put into the lid for other combinations of same materials. Is to those contained in the 'Instructions of use' for same product, but does not pased on data considered to be as accurate as possible at the date of issue. Insibility to determine the suitability of such information for his intended use. dge, the information contained herein is accurate. However, we cannot assume any or the accuracy or completeness of the information contained herein.
HMIS Rating:	a d Os a tío m Assa a is tío a (UOA). Us a lúb A Els as a shirite A Da sa tío ite a
	To Coating Association(USA): Health: 1 Flammability: 1 Reactivity: 0
The National Paint a	nd Coating Association(USA): Health: 1 Flammability: 1 Reactivity: 0
The National Paint a	:: Toner for Electrophotographic Equipment
The National Paint and Recommended Uses	
The National Paint a	
The National Paint and Recommended Uses Abbreviation ACGIH:	: Toner for Electrophotographic Equipment American Conference of Governmental Industrial Hygienists
The National Paint and Recommended Uses Abbreviation ACGIH: PEL	: Toner for Electrophotographic Equipment American Conference of Governmental Industrial Hygienists Permissible Exposure Limit
The National Paint and Recommended Uses Abbreviation ACGIH: PEL OSHA	Toner for Electrophotographic Equipment American Conference of Governmental Industrial Hygienists Permissible Exposure Limit Occupational Safety and Health Administration
The National Paint and Recommended Uses Abbreviation ACGIH: PEL OSHA TLV	Toner for Electrophotographic Equipment American Conference of Governmental Industrial Hygienists Permissible Exposure Limit Occupational Safety and Health Administration Threshold Limit Value
The National Paint at Recommended Uses Abbreviation ACGIH: PEL OSHA TLV TWA	E Toner for Electrophotographic Equipment American Conference of Governmental Industrial Hygienists Permissible Exposure Limit Occupational Safety and Health Administration Threshold Limit Value Time Weighted Average
The National Paint a Recommended Uses Abbreviation ACGIH: PEL OSHA TLV	American Conference of Governmental Industrial Hygienists Permissible Exposure Limit Occupational Safety and Health Administration Threshold Limit Value Time Weighted Average MAK (Maximale Arbeitsplatzkonzentrationem) under Deutsche
The National Paint a Recommended Uses Abbreviation ACGIH: PEL OSHA TLV TWA MAK:	Toner for Electrophotographic Equipment American Conference of Governmental Industrial Hygienists Permissible Exposure Limit Occupational Safety and Health Administration Threshold Limit Value Time Weighted Average MAK (Maximale Arbeitsplatzkonzentrationem) under Deutsche Forschungsgemeinschaft
The National Paint a Recommended Uses Abbreviation ACGIH: PEL OSHA TLV TWA MAK: IARC:	American Conference of Governmental Industrial Hygienists Permissible Exposure Limit Occupational Safety and Health Administration Threshold Limit Value Time Weighted Average MAK (Maximale Arbeitsplatzkonzentrationem) under Deutsche Forschungsgemeinschaft International Agency for Research on Cancer
The National Paint a Recommended Uses Abbreviation ACGIH: PEL OSHA TLV TWA MAK: IARC: NTP:	American Conference of Governmental Industrial Hygienists Permissible Exposure Limit Occupational Safety and Health Administration Threshold Limit Value Time Weighted Average MAK (Maximale Arbeitsplatzkonzentrationem) under Deutsche Forschungsgemeinschaft International Agency for Research on Cancer National Toxicology Program
The National Paint at Recommended Uses Abbreviation ACGIH: PEL OSHA TLV TWA MAK: IARC: NTP: UN:	American Conference of Governmental Industrial Hygienists Permissible Exposure Limit Occupational Safety and Health Administration Threshold Limit Value Time Weighted Average MAK (Maximale Arbeitsplatzkonzentrationem) under Deutsche Forschungsgemeinschaft International Agency for Research on Cancer National Toxicology Program United Nations
The National Paint at Recommended Uses Abbreviation ACGIH: PEL OSHA TLV TWA MAK: IARC: NTP: UN: TSCA:	American Conference of Governmental Industrial Hygienists Permissible Exposure Limit Occupational Safety and Health Administration Threshold Limit Value Time Weighted Average MAK (Maximale Arbeitsplatzkonzentrationem) under Deutsche Forschungsgemeinschaft International Agency for Research on Cancer National Toxicology Program United Nations Toxic Substances Control Act(USA)
The National Paint at Recommended Uses Abbreviation ACGIH: PEL OSHA TLV TWA MAK: IARC: NTP: UN:	American Conference of Governmental Industrial Hygienists Permissible Exposure Limit Occupational Safety and Health Administration Threshold Limit Value Time Weighted Average MAK (Maximale Arbeitsplatzkonzentrationem) under Deutsche Forschungsgemeinschaft International Agency for Research on Cancer National Toxicology Program United Nations



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