



1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name:	Magenta Toner for d-Color MF459en, d-Color MF459, d-Color MF559en, d-Color MF559, d-Color MF659en, d-Color MF659
Code number:	B1379
Product description:	Cartridge containing magenta toner powder
Company name:	Olivetti S.p.A. Strada Monte Navale, 2/C 10015 Ivrea (TO) – ITALY
For information:	Tel. 0039 (0)125 775019 e-mail : supplies@olivetti.com
In case of emergency:	Centro Antiveleni-Ospedale Niguarda (Milano) 0339(0)266101029

2. HAZARDS IDENTIFICATION

Classification:	Not classified as dangerous according to the Regulation EC n° 1272/2008.
Label elements:	Not applicable.
Signal words:	Not applicable.
Hazard statement:	Not applicable.
Pictograms:	Not applicable.
Assessment of PBT/vPvB:	No data available.
Other dangers:	Dust explosion (like most finely divided organic powders)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance []

Preparation [X]

Chemical name	Weight %	CAS number
Styrene acrylic resin	55-65	Confidential
Polyester resin	10-20	Confidential
Ferrite Iron oxide	1-10	1309-37-1
Manganese oxide	1-10	1344-43-0
Carbon black	1-10	1333-86-4
Wax	1-10	Confidential
Organic pigment	<1	147-14-8
Amorphous silica	<1	7631-86-9
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	<1	68909-20-6

Information of Ingredients

(1) Substance which present a health or environmental hazard within the meaning of CLP

None.

(2) Substance which are assigned Community workplace exposure limits

None.

(3) Substance which are PBT or vPvB in accordance with the criteria set out in Annex XIII of REACH

None

(4) Substance which are included in the list established in accordance with Article 59(1) of REACH

(SVHC)

None

4. FIRST-AID MEASURES

Inhalation:

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

Ingestion:

Rinse out the mouth. Drink one or two glasses of water to dilute. Seek medical treatment if necessary.

Skin contact:

Wash with soap and water.

Eye contact:

Flush with water immediately and see a doctor if irritating.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water spray, foam, powder, CO ₂ or dry chemical.
Unsuitable extinguishing media:	Full water jet.
Fire and explosion hazards:	None specified.
Protection of firefighters:	Pay attention not to blow away dust. 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 and wipe up with a wet cloth.
Reference to other sections:	see section 8 for personal protective equipment and see section 13 for disposal information.

7. HANDLING AND STORAGE

Handling:	Do not attempt to force open or destroy the toner or container unit.
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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Not required under normal conditions of usage.

Workplace exposure limits

Control parameters (as total dust)

ASCIH-TLV (USA) 10mg/m³ (inhalable particles)
3.0mg/m³ (respirable particles)

OSHA-PEL (USA) 15mg/m³ (total dust)
5.0mg/m³ (respirable fraction)

Control parameters (as titanium dioxide)

ACGIH-TLV (USA): 3mg/m³
OSHA Z-Table (USA): 3.5mg/m³

Control parameters (as carbon black)

ACGIH-TLV (USA): 0.1 mg/m³
OSHA Z-Table (USA): 5 mg/m³

Personal protective equipment: Respiratory protection, eye protection, hand protection, skin and body protection are not required under normal intended use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid.
Particle characteristics	No data available.
Color:	Magenta
pH:	No data available.
Melting point:	No data available.
Boiling point:	No data available.
Flash point	No data available.
Evaporation rate:	No data available.
Auto-ignition temperature:	No data available.
Upper/lower flammability or explosive limits:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Specific density:	No data available.
Solubility:	Insoluble in water.
Partition coefficient, n-Octanol/Water:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidising properties:	No data available.

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.
Conditions to avoid:	None specified.
Materials to avoid:	None specified.
Hazardous decomposition products:	Hazardous decomposition products are not to be produced.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:	(rat) LD50>2000mg/kg
Acute dermal toxicity:	(rat) LD50>2000mg/kg
Acute inhalation toxicity:	(rat)LC50(4h) >4.45.0mg/l
Eye irritation:	(rabbit) Minimal irritant.
Skin irritation/corrosion:	(rabbit) mild-irritant
Skin sensitizer:	((rabbit) mild-irritant
Local effects:	See “chronic effects” section.
Mutagenicity:	Ames test is negative
Reproductive toxicity:	No reproductive toxicant, according to (EC)No 1272/2008 Annex VI table 3.2.
Chronic effects:	Prolonged inhalation of excessive dust may cause lung damage. It is attributed to “lung overloading”, a generic response to excessive amounts of dust retained in the lungs for a prolonged interval. Use of this products, as intended, does not result in inhalation of excessive dust. In a study in rats by chronic 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 (H351). 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, does 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. The IARC reevaluated Titanium Dioxide as a Group 2B carcinogen (H351). 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, does 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.

12. ECOLOGICAL INFORMATION

No data available on the negative effects of this material on the environment.

13. DISPOSAL CONSIDERATIONS

Any disposal practice should be done under conditions which meet local, state and federal laws. So not attempt to incinerate the toner container or unit.

14. TRANSPORT INFORMATION

UN Classification:	None.
Further information:	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 of the European Parliament and of the Council on Substances That Deplete the Ozone Layer, Annex I and Annex 2: Not applicable.

Regulation (EC) No 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.

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, Preparations and Articles: Not applicable.

Regulation (EU) 2015/830 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

16. OTHER INFORMATIONS

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

Changes from the previous version: updated section n. 1-2-3-11-15-16

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.