

Material Safety Data Sheet
In according to the Regulation (CE) n. 1907/2006 REACH
Issue date: 07/06/2010 data Rev. Date: 07/06/2010
Data Sheet B0923in Rev. n. 0

1. Identification of the Product and of the Company

Product name:	Yellow Toner - Return Program d-Color MF920
Code number:	B0923
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

Primary Routes of Exposure: Dust inhalation, skin contact

Inhalation:	Low acute inhalation toxicity. As with exposure to high concentrations of any dust, minimal irritation of the respiratory tract may occur. Exposure not probable with intended use. Chronic: No adverse changes in the lungs result from this accumulation. Exposure not probable with intended use.
Skin Contact:	Not an irritant. Low dermal toxicity. Not a dermal sensitizer.
Eye Contact:	Toner may act as a mechanical irritant.
Ingestion:	Low acute oral toxicity.
Environment Hazards:	No data are available on the adverse effects of this product on the environment.
Specific Hazards:	Dust explosion (like most finely divided organic powders)

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3. Composition/information on ingredients

Substance [] Preparation [X]

Major ingredients:

Chemical name	Weight %	CAS number	EINECS number
Styrene Acrylic Polymer	75-88	+++	+++
Wax	5-10	+++	+++
Pigment	1-5	+++	+++
Amorphous Silica (modified)	1-5	+++	+++
Charge Control Agent	1-5	+++	+++
Titanium dioxide	<1	13463-67-7	236-675-5

+++ : Supplier's confidential information

4. First – aid measures

- Inhalation:** If symptoms, such as shortness of breath or persistent coughing are experienced, remove source of contamination and move individual to fresh air. If symptoms persist, seek medical attention.
- Skin contact:** Wash with mild soap and water. Should irritation occur, seek medical attention.
- Eye contact:** Do not rub eyes. Flush immediately with plenty of water. Remove contact lenses and continue flushing for at least 15 minutes. If irritation develops and persists, seek medical attention.
- Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Aggravate conditions:** Exposure to high airborne dust concentrations, including toner, may aggravate existing respiratory conditions.
- Notes to physician:** No specific antidote.

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Data Sheet B0923in Rev. n. 0

5. Fire – fighting measures

Flash point:	Solid, not applicable.
Auto-ignition temperature:	Not applicable.
Flammable limits:	Not determined.
Extinguishing media:	Carbon dioxide, water spray or fog, dry chemical or foam.
Hazardous combustion products:	Carbon monoxide, carbon dioxide, unidentified organics.
Special exposure hazards:	Like many finely divided materials, toner dust, in high concentrations can form an explosive mixture in air which, if ignited, could result in a dust explosion.
Special protective Equipment for fire-fighters:	Fire fighters should wear full protective clothing, including self-contained breathing apparatus.
NFPA Rating:	Health: 1 Flammability: 1 Reactivity: 0
HMIS Classification:	Health: 1* Flammability: 1 Reactivity: 0

6. Accidental release measures

Personal precautions:	None required for intended use in printer.
Environmental precautions:	Disposal is subject to national, state, regional, or provincial regulations.
Methods for Cleaning-up:	If a dust cloud is possible due to a spill, remove all sources of ignition such as open sparks, flames, or static discharge to prevent the ignition of the dust. Minimize dust generation during clean up. Sweep up spill with non-metallic broom and dustpan. Contain for disposal. Oil permeated sweeping compound may be useful in cleaning up spills.

Material Safety Data Sheet
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Data Sheet B0923in Rev. n. 0

7. Handling and storage

Handling: Avoid generating dust. To avoid damage to cartridge and accidental contact with toner, keep out of reach of children.

Storage: Store in a cool, dry place. Store away from oxidizing material.

8. Exposure controls/personal protection

Engineer Measures: Not required. Use in a well-ventilated area.

Respiratory: Not required for intended use in printer.

Gloves: Not required for intended use in printer.

Skin protection: Not required for intended use in printer.

Eyes: Not required for intended use in printer.

Control Parameters

Styrene Acrylic Polymer

OSHA-PEL (USA): None
ACGIH-TLV (USA): None

Pigment

OSHA-PEL (USA): None
ACGIH-TLV (USA): None

Charge Control Agent

OSHA-PEL (USA): None
ACGIH-TLV (USA): None

Wax

OSHA-PEL (USA): None
ACGIH-TLV (USA): None

Amorphous Silica (modified)

OSHA-PEL (USA): None
ACGIH-TLV (USA): None

Titanium dioxide

OSHA-PEL (USA): 15 mg/m³ 8 hours TWA
ACGIH-TLV (USA): 10 mg/m³ 8 hours TWA

Hygiene measures: Wash hands after handling.

9. Physical and chemical properties

Physical state:	Solid (Finely divided solid)
Color:	Yellow
Odour:	Faint odor (Plastic)
Solubility:	Insoluble in water
Melting/freezing point:	Not determined
Specific Gravity:	Not determined
Volatily:	Not determined

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Data Sheet B0923in Rev. n. 0

10. Stability and reactivity

Stability and reactivity:	The product is stable
Condition to avoid:	Keep away from heat, flame, sparks and other ignition sources.
Materials to avoid:	Strong oxidizing materials.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, unidentified organics.
Hazardous Polymerization:	Will not occur.
Additional guidelines:	None Known.

11. Toxicological information

Primary routes of exposure:	Inhalation of dust, skin contact.
Ingestion	Low acute oral toxicity. Exposure not probable with intended use.
Acute toxicity oral rat LD50:	>5000 (mg/kg)
Inhalation:	Low acute inhalation toxicity. As with exposure to high concentrations of any dust, minimal irritation of the respiratory tract may occur. Pure titanium dioxide, minor components of this product, has been listed by IARC as a group 2B (possible carcinogen). This classification is based on rat "lung particulate overload" studies performed with airborne particulate. Toner is not listed by IARC, NTP, or OSHA.
Aggravating conditions:	Exposure to high airborne dust concentrations, including toner, may aggravate existing respiratory conditions.
Potential chronic health effects:	CARCINOGENIC EFFECTS: Classified 2B (Possible for humans.) by IARC [Titanium dioxide]. MUTAGENIC EFFECTS: Not mutagenic in Ames test. TERATOGENIC EFFECTS: Not available. Toner dust is a particulate not otherwise classified (PNOC) or regulated (PNOR).

12. Ecological information

Mobility:	Not determined.
Persistence/degradability:	Not determined.
Other information:	None known.

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Data Sheet B0923in Rev. n. 0

13. Disposal considerations

Waste disposal: This product is not a listed hazardous waste in accordance with Federal Regulation 40 CFR Part 261. If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material has been contaminated and should be classified as a hazardous waste. Disposal is subject to local, state and federal regulations.

14. Transport information

Not regulated by any transport mode.

15. Regulatory information

United States

TSCA (USA)

All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.

SARA / EPCRA (USA)

None of the ingredients in this product has a final reportable quantity (RQ) under Emergency Planning and Community Right-to Know Act (EPCRA)-Section 302: Extremely Hazardous Substances (EHS) or notification requirements for EHS under Section 304.

California Prop. 65

This product contains no known materials at levels which the State of California has found to cause cancer, birth defects or other reproductive harm - California Proposition 65.

International regulations lists

EINECS (Europe)

All ingredients are listed on the European Inventory of Existing Commercial Substances (EINECS) list, have been registered on the European List of New Chemical Substances (ELINCS), or are exempt.

ENCS (Japan)

All ingredients are listed on the Japanese Existing and New Chemical Substances (ENCS) list, have been registered, or are exempt.

AICS (Australia)

All ingredients are listed in Australian Inventory of Commercial Substances (AICS), have been registered, or are exempt.

Philippines inventory (PICCS)

All ingredients are listed on the Philippines Inventory (PICCS) or are exempt.

Korea inventory (KECI)

All ingredients are listed on the Korean Existing Chemicals List (ECL), have been registered, or are exempt.

China inventory (IECSC)

All ingredients are listed on the Chinese inventory (IECSC) or are exempt.

Canada

WHMIS (Canada)

Not controlled under WHMIS (Canada).

DSL/NDSL

All ingredients are listed on the Canadian Domestic Substances List (DSL), have been registered on the Non-Domestic Substances List (NDSL), or are exempt.

Mexico Classification

Health: 1 Flammability: 1 Reactivity: 0

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Data Sheet B0923in Rev. n. 0

16. Other information

This Material Safety Data Sheet was prepared in according to the Regulation (CE) n. 1907/2006 REACH. This information adds to those contained in the "Instructions of use" for same product, but does not substitute them.

The information contained herein relates only to the referred product as manufactured and put into the market, and is not valid for other combinations of same materials.

It is the user's responsibility to determine the suitability of such information for his intended use.

Abbreviation

ACGIH:	American Conference of Governmental Industrial Hygienists
PEL	Permissible Exposure Limit
OSHA	Occupational Safety and Health Administration
TLV	Threshold Limit Value
TWA	Time Weighted Average
MAK:	MAK (Maximale Arbeitsplatzkonzentrationem) unter Deutsche Forschungsgemeinschaft
IARC:	International Agency for Research on Cancer
TSCA:	Toxic Substances Control Act(USA)