

Material Safety Data Sheet
In accordance to the Regulation (CE) n. 1907/2006 REACH
Issue date: 26/01/2009 data Rev. Date: 26/01/2009
Data Sheet B0839in Rev. n. 0

1. Identification of the product and of the Company

Product Name: TON.CARTR.BLACK D-1800-2200/1800-2200/MF
Product Code: B0839
Product Description: Black toner

Company Details: Olivetti S.p.A.
Via Jervis 77
10015 Ivrea (TO) - ITALY

For information: Tel. 0039 (0)125 522710
Fax 0039 (0)125 522711
e-mail : supplies@olivetti.com

For emergency: Centro Antiveleni-Ospedale Niguarda (Milan)
0039 (0)2 66101029

2. Hazards Identification

Most important Hazards: Not classified as dangerous (1999/45/EC)

Specific Hazards: None

Other information on Hazards: Potential health effect

Ingestion Ingestion is not applicable route of entry for intended use.

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

Eye contact May cause eye irritation

Skin contact Unlikely to cause skin irritation

3. Composition/information on ingredients

Substance or preparation; Preparation Ingredients

Chemical name (Common name)	CAS number	Weight %
Styrene acrylate copolymer – 1	Confidential	50 – 60
Magnetite	Confidential	40 – 50
Styrene acrylate copolymer – 2	Confidential	1 – 5
Titanium oxide	13463 – 67 – 7	1 – 5
Silica	7631 – 86 – 9	1 – 5

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4. First aid measures

Inhalation:	Remove from exposure to fresh air and gargle with plenty of water. Consult a doctor in case of such a symptoms as coughing
Skin Contact:	Wash with soap and water.
Eye Contact:	Flush with water immediately and see a doctor if irritating
Ingestion:	Rinse out the mouth. Drink one or two glasses of water to dilute. Seek medical treatment if necessary

5. Fire fighting measures

Extinguishing Media	Water (Sprinkle with Water), Foam, Powder, CO2 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

In case of dispersion of large amount of product take the following precautions:

Personal precautions:	Avoid inhalation, ingestion, eye and skin contact in case of accidental toner release
Environmental precautions:	No special precaution
Method for cleaning up:	Gather the released toner not to blow away and wipe up with a wet cloth

7. Handling and storage

Handling:	Never open the toner container
Storage:	Keep the toner container tightly closed and store in a cool, dry and dark place keeping away from fire. Keep away from children

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8. Exposure controls/personal protection

Control parameters <Reference Data>

ACGIH TLV (2000) – TWA	Titanium Oxide 10 mg/m ³ Silica 10 mg/m ³ Total Dust 10 mg/m ³ Respirable Dust 3 mg/m ³
OSHA PEL (2006) – TWA	Titanium Oxide 15 mg/m ³ Silica 80 mg/m ³ /% SiO ₂ Total Dust 15 mg/m ³ Respirable Dust 5 mg/m ³

Protective Equipment: Respiratory protection, eye protection, hand protection, skin and body protection are not required under normal use

Ventilation: Ventilation is not required under normal use

9. Physical and chemical properties

9.1 General information

Physical state:	Solid
Form:	Fine powder
Color:	Black
Odor:	Odorless

9.2 Important health, safety and environmental information

pH	N.A.
Melting point	140° C
Explosion properties	Dust explosion is improbable under normal 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
Density	1.5 – 2.0 g/cm ³
Solubility	Almost insoluble in water

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10. Stability and reactivity

Stability/Reactivity: Stable under normal use

Hazardous Decomposition products: None

11. Toxicological Information

Acute oral toxicity No data Available

Acute dermal toxicity No data Available

Acute inhalation toxicity No data Available

Acute eye irritation No data Available

Acute skin irritation No data Available

Skin sensitization No data Available

Mutagenicity Ames test is Negative

Reproductive Toxicity No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive (67/548/EEC).

Carcinogenicity No carcinogen or potential carcinogen, according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTA, ILO, MAK, California Proposition 65, TRGS 905 and Directive (67/548/EEC).

Chronic effects In study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the concentration (16 mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4 mg/m³) exposure group. But not pulmonary change was reported in the lowest (1 mg/m³) exposure group, the most relevant level to potential human exposures.

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12. **Ecological information**

No data available

13. **Disposal Consideration**

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).

14. **Transport information**

UN No: None

UN Shipping Name: None

UN Classification: None

UN Packing Group: None

Special Precautions: None

15. **Regulatory Information**

EU Information

Label information according to the Directives 67/548/EEC and 1999/45/EEC.

Symbol and Indication: Not required

R – Phrase: Not required

S – Phrase: Not required

Special markings: Not required

Hazardous ingredients for labelling: None

US Information

All components in this product comply with order under TSCA.



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16. Other information

To the best of our knowledge, the information contained herein is accurate.

However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

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 Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft

TRGS: Technische Regeln Für Gefahrstoffe (Deutsche)

EPA: Environmental Protection Agency (USA)

NTP: National Toxicology Program

ILO: International Labour Office

UN: United Nations

TSCA: Toxic Substances Control Act(USA)

Reference

- ISO 11014-1 Safety data sheet for chemical products
- Commission Directive 91/155/EEC and 2001/58/EC
- Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats
H.Muhle et.al
Fundamental and Applied Toxicology 17.280-299(1991)
- Lung Clearance and Retention of Toner, Utilizing a Tracer Technique,
during Chronic Inhalation Exposure in Rats
B.Bellmann
Fundamental and Applied Toxicology 17.300-313(1991)