

## MATERIAL SAFETY DATA SHEET

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MSDS N° : ICP-034J

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PRODUCT NAME : TONER

Prepared Date : 3 décembre 1998

Revised Date : 27 sept 2002

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### 1. PRODUCT AND COMPANY IDENTIFICATION

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**Product Supplier Reference : BLACK TONER**

**Consumable Name : TNR 7 36 / 350**

**Supplier identification :**

**SAGEM COMMUNICATION**

27 rue Leblanc  
75512 PARIS CEDEX 15 France

Phone : +33(0)1 40 70 63 63

Fax : +33(0)1 40 70 66 40

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance [ ]                      Preparation [ X ]

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Polyester resin	+++	>90
Carbon black	1333-86-4	1- 5
Polyolefin wax	+++	1- 5
Organic pigment	+++	1- 5
Amorphous silica	7631-86-9	< 1

+++ : Supplier's confidential information

Hazardous Ingredients:

Chemical Name: Carbon black (1- 5%)

CAS No.: 1333-86-4

OSHA Z-Tables (USA): 3.5mg/m<sup>3</sup>

NTP (USA): Not listed

Symbol (EC): Not listed

DFG-MAK (GER): III 3B

EEC-No.: 215-609-9

ACGIH-TLV (USA): 3.5mg/m<sup>3</sup>

IARC Monographs: Group 2B

R-Phrase (EC): Not listed

Worksafe-TWA (Aust1): 3mg/m<sup>3</sup>

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### 3. HAZARDS IDENTIFICATION

Classification : Not classified as dangerous. (1999/45/EC)

Most Important Hazards and Effects of the Products

For Human Health: This toner is not classified as a human carcinogen.  
No symptoms expected with intended use.

For the Environment: No data are available on the adverse effects of  
this product on the environment.

For Others: None

Specific Hazards: Dust explosion (like most finely divided organic powders)

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### 4. FIRST-AID MEASURES

Symptoms of Overexposure: No symptoms expected with intended use.

Routes of Entry: Eye contact, inhalation, ingestion

Information

Inhalation: If symptoms are experienced, remove source of  
contamination or move victim to fresh air and obtain medical advice.

Skin Contact: Flush with gently flowing water (preferably lukewarm) and  
soap for 15 minutes or until particle is removed. If irritation  
does occur, obtain medical advice.

Eye Contact: Do not allow victim to rub eye(s). Flush with gently flowing  
water (preferably lukewarm) for 15 minutes or until particle is  
removed. Have victim look right and left, and, then up and down.  
If irritation does occur, obtain medical attention. DO NOT attempt  
to manually remove anything stuck to the eye(s).

Ingestion: If irritation or discomfort occurs, obtain medical  
attention immediately.

Note to Physician: None

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### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO<sub>2</sub>, water spray, foam and dry chemical

Extinguishing Media to Avoid: Full water jet

Special Firefighting Procedures: None

Fire and Explosion Hazards: If dispersed in air, like most finely  
divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus (SCBA).

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### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wipe off with paper or cloth.

DO NOT use vacuum cleaner when a large amount is released. It, like  
most finely divided organic powders, may create a dust explosion.

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### 7. HANDLING AND STORAGE

#### Handling

Technical Measures/Precautions: None

Safe Handling Advice: Try not to disperse the particles.

#### Storage

Technical Measures: None

Storage Conditions: Keep container closed.

Store in a cool and dry place.

Keep out of reach of children.

Incompatible Products:None

Packing Materials: Bottles or Cartridge designated by Minolta.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering Measures

Ventilation: None required with intended use.

#### Control Parameters(As total dust)

OSHA-PEL(USA): 15mg/m<sup>3</sup>      ACGIH-TLV(USA): 10mg/m<sup>3</sup>

DFG-MAK(GER): 4mg/m<sup>3</sup>      Worksafe-TWA(Austl.): 10mg/m<sup>3</sup>

#### Personal Protective Equipment

None required when used as intended in Minolta equipment.

For use other than normal customer-operating procedures (such as in bulk toner processing facilities), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Physical State: Solid      Form: Powder      Color: Black

Odor: Faint odor

Particle Size(µm): 5 - 15

PH/Boiling Point(°C): Not applicable

Melting Point(°C): No data available

Softening Point(°C): 120 - 130 \*

Flash Point(°C): Not applicable

Ignition Temperature(°C): 450 \*

Explosion Properties: No data available

Vapor Pressure: Not applicable

Density(g/cm<sup>3</sup>): 1.2 (bulk density: 0.5)

Solubility in water: Negligible

Oxidizing Properties: No data available

Partition Coefficient, n-Octanol/Water: Not applicable

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Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

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### 12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

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### 13. DISPOSAL CONSIDERATION

#### Appropriate Methods of Disposal

#### Preparation (community provisions):

Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations.

#### Contaminated Packaging:

Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations.

#### Precautions:

Do not throw the toner cartridge or toner into an open flame. The hot toner may scatter and cause burns or other damage.

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### 14. TRANSPORT INFORMATION

Special Precautions: None

Information on Code and Classifications According to International Regulations

UN Classification: None

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### 15. REGULATORY INFORMATION

#### US Information

Information on the label: Not required

#### TSCA (Toxic Substances Control Act):

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

#### SARA (Superfund Amendments and Reauthorization Act) Title III

302 Extreme Hazardous Substance: None

311/312 Hazard Categories/313 Reportable Ingredients: None

#### California Proposition 65:

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

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