



# Material Data Safety Sheets

## Material Safety Data Sheet: B4200/B4300 Black Toner

**Category:**LED Page Printers

**Posted:**05/28/2002

**Product(s):**B4200, B4300

**Family:**LED

**MSDS Sheet # 58356601 For Black Toner, Type 9, Part #'s 42103001 & 42102901**

For more information, contact Oki Data at: 2000 Bishops Gate Blvd., Mount Laurel, NJ 08054-4620

Emergency Information: call **1-800-OKIDATA; U.S. and Canada only**

### Hazardous Ingredients

#### **Styrene-Butyl Acrylate Copolymer (84% by weight)**

CAS#: 25767-47-9

OSHA TWA: 15 mg/m<sup>3</sup> for total dust

ACGIH TLV: 10 mg/m<sup>3</sup> for total dust

#### **Carbon Black (5-7% by weight)**

CAS#: 1333-86-4

OSHA TWA: 3.5 mg/m<sup>3</sup>

ACGIH TLV: 3.5 mg/m<sup>3</sup>

#### **Fatty acid ester (5-10% by weight)**

CAS#: 61682-73-3

OSHA TWA: --

ACGIH TLV: --

### Carcinogens

#### **Carbon Black**

IARC -2B

### Physical/Chemical Characteristics

**Melting Point:** 110°C (230°F)

**Boiling Point (Softening Point):** Not applicable

**Vapor Pressure mmHg:** Not applicable

**Vapor Density (Air=1):** Not applicable  
**Evaporation Rate:** Not applicable  
**Specific Gravity (H<sub>2</sub>O=1):** 1.15  
**Solubility in water:** Negligible  
**Appearance and odor:** Black powder, odorless

## Fire and Explosion Hazard Data

**Flash Point (Method Used):** Not applicable  
**Flammable Limits**

**Lower Explosive Limit:** Not applicable  
**Upper Explosive Limit:** Not applicable  
**Explosion Limits**  
**Lower Explosive Limit:** 60g/m<sup>3</sup>  
**Upper Explosive Limit:** Unknown  
**Extinguishing Media:** Water, Co<sub>2</sub>, ABC Dry Chemical, or Protein type air foams.  
**Special Fire Fighting Procedures:** Do not use methods that may create a dust cloud, such as high pressure water and/or steam.  
**Unusual Fire and Explosion Hazards:** Thermal decomposition of organic components may result in release of oxides and carbon and nitrogen.

## Reactivity Data

**Stability:** Stable  
**Conditions to Avoid:** Do not expose to temperature above 200°C.  
**Incompatibility (Materials to Avoid):** Avoid exposure to strong oxidizers.  
**Hazardous Polymerization:** Will not occur.  
**Conditions to Avoid:** None.  
**Hazardous Decomposition Products:** Carbon Oxide.

## Health Hazard Data

### Routes of Entry:

**Eye Contact:** Eye irritation will be caused. If contacted, flush eyes with running water for several minutes with eyelids open. consult an eye doctor.  
**Skin Contact:** No symptoms will appear. If contacted, remove contaminated clothes and wash skin with soap and water.  
**Inhalation:** Lung irritation, difficult breathing, sneezing, coughing, will be caused. If inhaled, remove the sufferer to fresh air and call a physician.

### Health Hazards (Acute and Chronic)

Acute Oral Toxicity: LD50>2000mg/Kg(Rat)  
Ames Test: Negative  
Acute Inhalation Toxicity: LC50>4.98mg/l/(Rat)  
Skin Irritation: No irritant (Rabbit)  
Eye Irritation: Minimal irritant (Rabbit)

Carcinogenicity: NTP; NL IARC Monograph; NL OSHA  
Regulated; NL NL; Not Listed

### **Spill or Leak Procedures**

**Steps to be taken in case Material is Released or Spilled:** Spray water over the spilled and/or leaded materials and then clean out into a container. A vacuum cleaner with explosion-proof can be used for small spills.

**Water Disposal Method:** Follow appropriate federal, state and local regulations.

### **Control Measures**

**Respiratory Protection (Specify Type):** Nuisance dust respirator

**Ventilation:** Local Exhaust-Recommended/Special-not necessary Mechanical (General)-Recommended Other-not necessary

**Protective Gloves:** Recommended.

**Eye Protection:** Safety goggles.

**Other Protective Equipment:** Not Necessary

### **Special Precaution**

**Precautions to be taken in handling and storing:** Store in dry cool place, Keep from sparks and open flame. Use with adequate ventilation. To avoid dust explosion, ground all equipment and pour material slowly into vessel.

**Other Precautions:** None

### **Transportation Information**

This product is not regulated as hazardous materials by the DOT.

### **Regulatory Information**

All ingredients are registered under the Toxic Substance Control Act (TSCA) or under polymer exemption.

All ingredients are exempt, registered or considered (polymers) under **European Inventory of Existing Commercial Chemical Substances (EINECS)**.

### **User's Responsibility**

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation must be examined, if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin must be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

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