



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/m³ for total dust

ACGIH TLV: 10 mg/m³ for total dust

Carbon Black (5-7% by weight)

CAS#: 1333-86-4

OSHA TWA: 3.5 mg/m³

ACGIH TLV: 3.5 mg/m³

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 (H₂O=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/m³
Upper Explosive Limit: Unknown

Extinguishing Media: Water, CO₂, 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 leaked 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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Okidata Americas, Inc. 2000 Bishops Gate Blvd. Mt Laurel, NJ 08054-4620 Tel: (856)

235-2600 FAX: (856) 222-5320

Oki Data Americas, Inc. 2735 Matheson Blvd. East, Unit 1, Mississauga Ontario, Canada L4W 4M8 Tel: (800) 654-3282 FAX: (905) 238-4427

Oki Data de Mexico, S.A. de C.V., Mariano Escobedo No. 748 - 8 Piso, Col Anzures, e. p. 11590, Mexico, DF Tel: +52 55 5263-8780 FAX: +52 55 5263-8783

Oki Data do Brasil, Ltda., Rua Alexandre Dumas, 2220 - 8º andar, Chacara Santo Antonio, 04717-004 Sao Paulo - SO - Brasil Tel: 55-11-3444-3500 FAX: 55-11-3444-3501 Support Center: 0800-11-55-77 Email: okidata@okidata.com.br



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