

MATERIAL SAFETY DATA SHEET
 MAY BE USED TO COMPLY WITH OSHA'S
 HAZARD COMMUNICATION STANDARD
 29CFR 1910.1200



Emergency telephone number 1-800-356-2728
 telephone number 1-919-774-3808

DATE PREPARED 3/13/02 SIGNATURE OF PREPARER (OPTIONAL)

SECTION 1 CHEMICAL PRODUCT / NAME

Product/Chemical Name: Optra T 620B
CAS Number: Mixture
Other Designations: N/A
General Use: Laser Printer

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient Name: | CAS NUMBER | % | OSHA PEL | ACGIH TLV | OTHER LIMITS |
|---|------------|------|-----------------------|-----------|--------------|
| Toner is regulated under OSHA as particulate not otherwise regulated: | | | | | |
| Styrene-Acrylate Copolymer | 29497-14-1 | < 95 | | | |
| Carbon Black | 1333-86-4 | < 10 | 3.5 mg/m ³ | | |
| Polypropylene | 9003-07-0 | < 2 | | | |
| Organic pigment | 84179-66-8 | < 1 | 0.5 mg/m ³ | | |
| Amorphous Silica | 68909-20-6 | < 1 | 80 mg/m ³ | | |

NDA = NO DATA AVAILABLE
N/A = NOT APPLICABLE

SECTION 3 HAZARDOUS IDENTIFICATION

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| <p>Primary Entry Routes: Inhalation Target Organs: N/A Acute Effects: N/A Inhalation: Slight irritation of respiratory tract. Eye: Dust may cause irritation by mechanical abrasion. Skin: Slight irritation. Ingestion: None known. Carcinogenicity: Carbon black is reclassified as a group 2B by IARC, but inhalation tests using a typical toner showed no association between toner and animal tumors. Medical Conditions Aggravated By long-term Exposure: Accumulation of dust in the respiratory system may cause congestion. Chronic Effects: If these materials are used in a manner that could generate airborne particles (dust), it is recommended that the dust be treated as a NUISANCE PARTICULATE according to the American Conference of Government Industrial Hygienists (ACGIH)(TLV=10mg/m³).</p> | <p>HMIS H 1 F 1 R 0 PPE Sec.8</p> |
|---|--|

SECTION 4 FIRST AID MEASURES

Inhalation: Remove to fresh air. Treat any irritation symptomatically. Call a physician if condition persists.
Eye Contact: In case of contact immediately flush with plenty of low pressure water for at least 15 minutes. Remove any contact lenses to ensure thorough flushing.
Skin Contact: Wash well with soap and running water.
Ingestion: N/A
After first aid, get appropriate in-plant paramedic or community medical support if serious sign and symptoms persist.
Note to Physicians: N/A
Special Precautions / procedures: N/A

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Section 5 FIRE FIGHTING MEASURES

| | |
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| Flash Point: | N/A |
| Flash Point Method: | N/A |
| Burning Rate: | N/A |
| Auto Ignition Temperature: | Not Determined |
| LEL: | N/A |
| UEL: | N/A |
| Flammability Classification: | 1 Slight (HMIS, NFPA) |
| Extinguishing Media: | Water spray, dry chemical, foam, carbon dioxide, or halon type extinguishers. |
| Unusual Fire or explosion hazards: | May form flammable dust-air mixture. |
| Hazardous combustion products: | Carbon monoxide, carbon dioxide, nitrogen oxide and smoke. Under certain conditions some aliphatic aldehydes and carboxylic acids may form. |
| Fire- Fighting Instructions: | Do not release runoff from fire control methods to sewers or waterways. |
| Fire-Fighting Equipment: | Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with full facepiece operated in pressure-demand or positive-pressure mode. |

SECTION 6 ACCIDENTAL RELEASE MEASURES

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| Spill / Leak Procedures: | N/A |
| Small Spills: | Scoop into container for disposal, suction up remaining material with high efficiency vacuum cleaner. |
| Large Spills: | Scoop into container for disposal, suction up remaining material with high efficiency vacuum cleaner. |
| Containment: | For large spills, avoid suspending particles, collect for later disposal. Do not release into sewers or waterways. |
| Cleanup: | No special requirements. |
| REGULATORY REQUIREMENT : | N/A |

SECTION 7 HANDLING AND STORAGE

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| Handling Precautions: | Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources. |
| Storage Requirements | Store in a cool, dry location. |
| Regulatory Requirements: | N/A |

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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|---------------------------------------|--|
| Engineering Controls: | |
| Ventilation: | Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (sec.2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source. |
| Administrative Controls: | |
| Respiratory Protection: | Seek professional advise prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operation (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. <i>Warning! Air-purified respirators do not protect workers in oxygen-deficient atmospheres.</i> |
| Protective Clothing/Equipment: | Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29CFR 1910.133). Contact lenses are not eye protective devices. appropriate protection must be worn instead of, or in conjunction with contact lenses. |
| Safety Stations: | Make emergency eyewash stations and washing facilities available in work area. |
| Contaminated Equipment: | Separate contaminated work clothing from street clothes. Launder before re-use. Remove this material from your shoes and clean personal protective equipment. |
| Comments: | Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking using the toilet, or applying cosmetics |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------------|-----------------------------------|--------------------------------|------------|
| Physical State: | Solid | Water Solubility: | Negligible |
| Appearance and Odor: | Black, free flowing powder. | Other Solubilities: | N/A |
| Odor Threshold: | N/A | Boiling Point: | N/A |
| Vapor Pressure: | N/A | Freezing/Melting Point: | N/A |
| Vapor Density(Air=1): | Heavier than air. | Viscosity: | N/A |
| Formula Weight: | N/A | Refractive Index: | N/A |
| Density: | N/A | Surface Tension: | N/A |
| Specific Gravity: | (H ₂ O=1, at 4°C): 1.1 | %Volatile: | N/A |
| pH: | N/A | Evaporation Rate: | N/A |

SECTION 10 STABILITY AND REACTIVITY

| | |
|--|-----|
| STABILITY: | N/A |
| POLYMERIZATION: | N/A |
| CHEMICAL INCOMPATIBILITIES: | N/A |
| CONDITIONS TO AVOID: | N/A |
| HAZARDOUS DECOMPOSITION PRODUCTS: | N/A |

SECTION 11 TOXICOLOGICAL INFORMATION**CARCINOGENICITY:**

In 1996, the IARC reevaluated carbon black as a GROUP 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. 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 exposure and tumor developments and rats.

MUTAGENICITY:

AMES test is negative.

CHRONIC EFFECTS:

In a study in rats (H. Muhle) 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 animals in the middle (4 mg/m³) exposure group. But no pulmonary changes in the lowest (1 mg/m³) exposure group, the most relevant level to potential human exposures.

SECTION 12 ECOLOGICAL INFORMATION

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| Ecotoxicity: | N/A |
| Environmental Fate: | N/A |
| Environmental Degradation: | N/A |
| Soil Absorption / Mobility: | N/A |

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal: Follow all applicable federal, state, and local regulations.

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| Disposal Regulatory Requirements: | N/A |
| Container Cleaning and Disposal: | N/A |

SECTION 14 TRANSPORT INFORMATION

DOT Transportation Data (49 CFR 172.101): Not specifically listed

| | | | |
|---------------------------|-----|---------------------------------|------------------------------------|
| Shipping Name: | N/A | Packaging Authorizations | Quantity Limitations |
| Shipping Symbol: | N/A | a) Exceptions: N/A | a) Passenger, Aircraft, or |
| Hazard Class: | N/A | b) Non-bulk Packaging: N/A | Railcar: N/A |
| ID No.: | N/A | c) Bulk Packaging: N/A | |
| Packing Group: | N/A | | Vessel Stowage Requirements |
| Label: | N/A | | a) vessel stowage: N/A |
| Special Provisions | N/A | | b) Other: N/A |

SECTION 15 REGULATORY INFORMATION

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)
RCRA Hazardous Waste Classification: (40 CFR 261): Not classified
CERCLA Hazardous Substance (40 CFR 302.4) listed/unlisted specific per RCRA, sec. 3001;
CWA sec.311 (b)(4);
CWA, Sec. 307(a),CAA,Sec.112
CERCLA Reportable Quantity(RQ): Not listed
SARA 311/312 Codes: N/A
SARA Toxic Chemical (40 CFR 372.65): Not listed
SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000< Table Z-1-A): Particulates not otherwise regulated.

State Regulations: Check your states regulations that may specifically list copy machine toner.

SECTION 16 OTHER INFORMATION

Prepared By: N/A
Revision Notes: N/A
Additional Hazard Rating System: N/A

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