

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer:	NU-KOTE INTERNATIONAL	Manufactured For:	 Corporate Express A Buhrmann Company
Address:	200 Beasley Drive, Franklin, TN 37064		
Telephone:	800-448-1422	HMIS INFORMATION:	
Fax:	800-289-6856	Health: 1	Reactivity: 0
Emergency Telephone:	Chemtrec (800) 424-9300	Fire: 1	Protection:
Product Code:	CEB61AR	0 = Low	4 = High
Product Synonyms:	HP4100 R41A Laser toner cartridge.		

SECTION 2: INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>Exposure limits:</u>	<u>Concentration:</u>
Styrene acrylate copolymer CAS NUMBER: 25757-47-9	ACGIH TLV 5.0mg/cu.m.	40-65%
Iron Oxide CAS NUMBER: 1309-37-1	ACGIH TLV 5mg/cu.m. OSHA PEL 5mg/cu.m.	30-50%
Polypropylene/ethylene copoly. CAS NUMBER: 9002-88-4	ACGIH TLV 10mg/cu.m. OSHA PEL 15mg/cu.m.	< 5%
Dye. CAS NUMBER: 31714-55-3	Not established	< 5%
Silica: CAS NUMBER: 7631-86-9	ACGIH TLV 20mppcf. OSHA PEL 10mg/cu.m.	<1%

SECTION 3: HAZARDS IDENTIFICATION

<u>Potential Health Effects:</u>	
<u>Eyes:</u>	Possible irritant.
<u>Skin:</u>	Slight irritant.
<u>Ingestion:</u>	Practically non-toxic
<u>Inhalation:</u>	Minimal respiratory tract irritation may occur as with exposure to large amounts of non toxic dust. TLV: 10mg/cubicmeter (Total Dust) • 5mg/cubicmeter (Respirable Dust)

SECTION 4: FIRST AID MEASURES

<u>Eyes:</u>	Flush with water.
<u>Skin:</u>	Wash with soap and water.
<u>Ingestion:</u>	Dilute stomach contents with several glasses of water.
<u>Inhalation:</u>	Remove from exposure.

SECTION 5: FIRE FIGHTING MEASURES

<u>Fire and Explosion Hazards:</u>	Toner is a combustible powder. When dispersed in air it forms explosive mixtures.
<u>Extinguishing Media:</u>	Water, foam, dry chemical.
<u>Fire Fighting Instructions:</u>	Avoid inhalation of smoke.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

Loose toner can be removed using a vacuum cleaner. Residue can be removed with soap and water. After removal of loose toner, garments may be washed or dry cleaned.

SECTION 7: HANDLING AND STORAGE:

<u>Handling and Storage Precautions:</u>	Avoid prolonged inhalation of excessive dust. Avoid storage temperatures in excess of 90 degrees Fahrenheit.
<u>Work/ Hygienic Practices:</u>	None required when cartridge is used in designated printer. In case of accidental release of toner, goggles and respirator may be required. Contact Nu-kote for information.

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION.

<u>Eye / Face Protection:</u>	None needed when used as intended in copier or printer equipment.
<u>Skin Protection:</u>	None needed when used as intended in copier or printer equipment.
<u>Respiratory Protection:</u>	None needed when used as intended in copier or printer equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

<u>Appearance:</u>	Plastic Cartridge containing finely divided black powder.
<u>Odor:</u>	Faint.
<u>Basic Physical Properties:</u>	Melting point: 198 degrees Fahrenheit. Specific Gravity: 1.0 Solubility in water: Negligible.

SECTION 10: STABILITY AND REACTIVITY.

<u>Stability:</u>	Stable.
<u>Conditions to avoid:</u>	None.
<u>Hazardous Decomposition Products:</u>	Products of combustion are toxic. Avoid breathing smoke.
<u>Hazardous Polymerization:</u>	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION.

<u>Miscellaneous Toxicological Information:</u>	In a Xerox sponsored chronic inhalation study in rats using a special toner, there were no lung changes at all in the lowest exposure level (mg/cubic meter). This is the most relevant level to human exposures. A very slight degree of fibroses was noted in 25% of the animals at the mid exposure level (4mg/cubic meter). While a slight degree of fibrosis was observed at the highest exposure level (16 mg/cubic meter) in all animals. These findings are attributed to "Lung Overloading". (A generic response to excessive amounts of any dust retained in the lungs for a prolonged interval). The special test toner was ten times more respirable than commercially available toners to comply with EPA testing protocol and would not function properly in a copier or printer.
<u>Mutagenicity:</u>	No mutagenicity detected by Ames Test.
<u>Carcinogens:</u>	None present.
<u>Medical Conditions Aggravated by Exposure:</u>	None when used as described by product literature.
This material when used as intended does not represent a health or safety hazard.	

SECTION 12: ECOLOGICAL INFORMATION.

No Data Given

SECTION 13: DISPOSAL CONSIDERATIONS

Do not incinerate. Conform with state, federal and local regulations

SECTION 14: TRANSPORT INFORMATION.

No Data Given

SECTION 15: REGULATORY INFORMATION.

No Data Given

SECTION 16: OTHER INFORMATION.

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The above listed brand names and model designations are intended only to show the compatibility of this Nu-kote product with various machines. Nu-kote is not affiliated with the manufacturers of any of these machines.

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