

# MATERIAL SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer:	<b>NU-KOTE INTERNATIONAL</b>	Manufactured For:	 <b>Corporate Express</b> <small>A Buhmann Company</small>
Address:	<b>200 Beasley Drive, Franklin, TN 37064</b>		
Telephone:	800-448-1422	HMIS INFORMATION:	
Fax:	800-289-6856	Health:	1      Reactivity: 0
Emergency Telephone:	<b>Chemtrec (800) 424-9300</b>	Fire:	1      Protection:
Product Code:	<b>CEB38AR</b>	0 = Low	4 = High
Product Synonyms:	HP4200    R42A    Laser toner cartridge.		

## SECTION 2: INFORMATION ON INGREDIENTS

<u><b>Ingredient</b></u>	<u><b>Exposure limits:</b></u>	<u><b>Concentration:</b></u>
Styrene acrylate copolymer CAS #: Confidential	OSHA PEL 15mg/cu.m. 5mg/cu.m. for respirable fraction.	not available
Iron Oxide CAS NUMBER: 1317-61-9	ACGIH TLV 10mg/cu.m. (for nuisance particulate)	not available
Wax. CAS #: Confidential	ACGIH TLV 10mg/cu.m.	not available
Polyester Resin CAS #: Confidential	not available	not available
Silica: CAS #: Confidential	not available	not available

## SECTION 3: HAZARDS IDENTIFICATION

<u><b>Potential Health Effects:</b></u>	
<u><b>Eyes:</b></u>	Possible irritant.
<u><b>Skin:</b></u>	Slight irritant.
<u><b>Ingestion:</b></u>	Practically non-toxic
<u><b>Inhalation:</b></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><b>Eyes:</b></u>	Flush with water.
<u><b>Skin:</b></u>	Wash with soap and water.
<u><b>Ingestion:</b></u>	Dilute stomach contents with several glasses of water.
<u><b>Inhalation:</b></u>	Remove from exposure.

## SECTION 5: FIRE FIGHTING MEASURES

<u><b>Fire and Explosion Hazards:</b></u>	Toner is a combustible powder. When dispersed in air it forms explosive mixtures.
<u><b>Extinguishing Media:</b></u>	Water, foam, dry chemical.
<u><b>Fire Fighting Instructions:</b></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.
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## SECTION 7: HANDLING AND STORAGE:

<u><b>Handling and Storage Precautions:</b></u>	Avoid prolonged inhalation of excessive dust. Avoid storage temperatures in excess of 90 degrees Fahrenheit.
<u><b>Work/ Hygienic Practices:</b></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.

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

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

<b><u>Appearance:</u></b>	Plastic Cartridge containing finely divided black powder.	
<b><u>Odor:</u></b>	Faint.	
<b><u>Basic Physical Properties:</u></b>	Melting point: not available	Specific Gravity: 1.5 - 2.5
	Solubility in water: Negligible.	

## SECTION 10: STABILITY AND REACTIVITY.

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

## SECTION 11: TOXICOLOGICAL INFORMATION.

<b><u>Miscellaneous Toxicological Information:</u></b>	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.
<b><u>Mutagenicity:</u></b>	No mutagenicity detected by Ames Test.
<b><u>Carcinogens:</u></b>	None present.
<b><u>Medical Conditions Aggravated by Exposure:</u></b>	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.*

10/6/2003