

# MATERIAL SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer:	<b>NU-KOTE INTERNATIONAL</b>	HMIS INFORMATION:	
Address:	<b>200 Beasley Drive, Franklin, TN 37064</b>	Health: 1	Reactivity: 0
Telephone:	800-448-1422	Fire: 1	Protection:
Fax:	800-289-6856	0 = Low	4 = High
Emergency Telephone:	<b>Chemtrec (800) 424 9300</b>		
Product Code:	LT87R+		
Product Synonyms:	IBM4039 Marathon R39AVX		Laser toner cartridge.

## SECTION 2: INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>Exposure limits:</u>	<u>Concentration:</u>
Styrene acrylate copolymer CAS NUMBER: 25213-47-2	ACGIH TLV 5.0mg/cu.m.	85-95%
Carbon Black CAS NUMBER:1333-86-4	ACGIH TLV 3.5mg/cu.m. OSHA PEL 3.5mg/cu.m.	8-12%
Wax. CAS NUMBER: 25085-53-4	ACGIH TLV 10mg/cu.m. OSHA PEL 15mg/cu.m.	1-6%
Pigment.	Not established	0.5-3.0%
Silicone Dioxide. CAS NUMBER: 7631-86-9	ACGIH TLV 20mppcf. OSHA PEL 10mg/cu.m.	0.1-0.8%

## SECTION 3: HAZARDS IDENTIFICATION

<b><u>Potential Health Effects:</u></b>	
<b><u>Eyes:</u></b>	Not an irritant.
<b><u>Skin:</u></b>	A non-irritant and non-sensitizer.
<b><u>Ingestion:</u></b>	Practically non-toxic
<b><u>Inhalation:</u></b>	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

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

## SECTION 5: FIRE FIGHTING MEASURES

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

<b><u>Handling and Storage Precautions:</u></b>	Avoid prolonged inhalation of excessive dust. Avoid storage temperatures in excess of 90 degrees Fahrenheit.
<b><u>Work/ Hygienic Practices:</u></b>	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>Eye / Face Protection:</b>	None needed when used as intended in copier or printer equipment.
<b>Skin Protection:</b>	None needed when used as intended in copier or printer equipment.
<b>Respiratory Protection:</b>	None needed when used as intended in copier or printer equipment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

<b>Appearance:</b>	Plastic Cartridge containing finely divided black powder.
<b>Odor:</b>	Faint.
<b>Basic Physical Properties:</b>	Melting point: 198 degrees Fahrenheit. Specific Gravity: 1.1 Solubility in water: Negligible.

## SECTION 10: STABILITY AND REACTIVITY.

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

## SECTION 11: TOXICOLOGICAL INFORMATION.

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

10/11/00