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Date Issued: Oct. 1, 2002

MSDS No. : F-01191

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name

: AR-C26TBU/ AR-C26TBE/ AR-C26TBA/ AR-C26TBP/ AR-C26TB-C/ AR-C26TB

(Black Toner)

Supplier Identification: Sharp Corporation

22-22 Nagaike-cho, Abeno-ku, Osaka, Japan

Local suppliers are listed below. Please contact the nearest supplier for additional information.

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Area	(Country)	(Name and Telephone Number)					
North America	U.S.A.	Sharp Electronics Corporation					
		Sharp Plaza, Mahwah, NJ					
		Telephone number for information	: 1-800-237-4277				
		Emergency telephone number	: 1-800-255-3924				
	Canada	Sharp Electronics of Canada Ltd.					
		Telephone number for information	: 905-890-2100				
	j	Emergency telephone number	: 1-800-255-3924				
Oceania	Australia	Sharp Corporation of Australia PTY. Ltd.					
		No1 Huntingwood Drive Huntingwood Blacktown N.S.W.					
		Telephone number for information	: 1300-13-50-22				
- Europe	Germany	Sharp Electronics (Europe) GMBH					
		Sonninstrasse 3, 20097 Hamburg					
		Telephone number to access MSDS	: 040-2376-2185				
		For more information	: 040-2376-2613				
	United	Sharp Electronics (U. K.) Ltd.					
	Kingdom	Telephone number for information	: 08705-274-277				
	France	Sharp Electronics France S.A.					
		Telephone number for information	: 01-49-90-34-00				
	Austria	Sharp Electronics GMBH					
		Telephone number for information	: 01-727-19-0				
	Italy	Sharp Electronics (Italy) S.P.A.					
		Telephone number for information	: 02895951				
	Spain	Sharp Electronics (Espana) S.A.					
		Telephone number for information	: 93-581-97-00				
	Netherlands	Sharp Electronics Benelux B.V.					
		Telephone number for information	: 30-6359500				
	Sweden	Sharp Electronics Nordic AB					
		Telephone number for information	: 08-634-36-00				
	Switzerland	Sharp Electronics(Schweiz)AG					
		Telephone number for information	: 01-846-6111				
Middle	U.A.E.	Sharp Middle East FZE					
East		P.O.Box 17115 Jebel Ali, Dubai	0.1.045044				
Lasi		Telephone number for information	: 04-815311				

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance[]

Preparation[X]

<u>Ingredient</u>	CAS No.	Proportion	OSHA PEL	ACGIH TLV	MAK-TWA	NOHSC-TWA
Polyester resin	Confidential	80-90%	Not listed	Not listed	Not listed	Not listed
Carbon black	1333-86-4	5-10%	3.5mg/m ³	3.5mg/m ³	Not listed	3mg/m³
Paraffin wax	Confidential	1-5%	Not listed	Not listed	Not listed	Not listed
Metal Complex dye*	109125-51-1	< 2%	0.5mg/m ³	0.5mg/m ³	Not listed	Not listed
, -	84179-66-8		_			
Amorphous silica	68909-20-6	1-5%	Not listed	Not listed	Not listed	Not listed

* EC No.: 400-110-2, Symbol letter: F, R Phrase: R11



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3. HAZARDS IDENTIFICATION

Most important Hazards and Effects of the Products

Human Health Effects : There are no anticipated carcinogenic effects from exposure based on animal tests

performed using toner. When used as intended according to instructions, studies do not

indicate any symptoms of fibrosis will occur.

Environmental Effects: No data are available.

Yes

: Dust explosion (like most finely divided organic powders) Specific hazards

Directive 1999/45/EC(Europe) : Not classified as dangerous

4. FIRST-AID MEASURES

Route(s) of Entry: Inhalation? Ingestion? Skin? Possible but very unusual.

No

: Remove to fresh air. If symptoms occur, consult medical personnel. Inhalation Skin Contact: Wash with soap and water for 15 minutes or until particle is removed.

If irritation does occur, consult medical personnel.

Eye Contact: flush eyes immediately with water for 15 minutes. If irritation does occur, consult medical personnel.

: Rinse with water and drink several glasses of water . If irritation or discomfort does occur, consult Ingestion

medical personnel.

5. FIRE -FIGHTING MEASURES

: Water, CO2, foam and dry chemicals Extinguishing Media

Special Fire fighting Procedures: None

: Toner material, like most finely divided organic powders, may form an explosive Fire and Explosion Hazards

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : None

Environmental Precautions : None

: Wipe off with paper or cloth. Do not use vacuum cleaner when a large amount is Methods for Cleaning Up

released. It, like most finely divided organic powders, is capable of creating a

dust explosion.

7. HANDLING AND STORAGE

Handling

Technical Measures : None

: None Precautions

Safe Handling Advice : Use of a dust mask is recommended when handling a large quantity of toner or during long

term exposure, as with any non-toxic dust. Try not to disperse the particles.

Storage

Technical Measures

Storage Conditions

: Keep container closed and Store in a cool and dry place.

Keep out of the reach of children.

Incompatible Products: None



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Ventilation

: Not required under intended use.

Exposure limit values

OSHA-PEL(USA) ACGIH-TLV(USA) : 15mg/m³ (Total Dust) , 5mg/m³ (Respirable Dust)

: 10mg/m³ (Total Dust) , 3mg/m³ (Respirable Dust)

Personal Protective Equipment

Respiratory Protection

: None required when used as intended in Sharp equipment. None required when used as intended in Sharp equipment. : None required when used as intended in Sharp equipment.

Hand Protection Eve Protection Skin Protection

: None required when used as intended in Sharp equipment.

Other Protective Equipment: Use of a dust mask and goggles are recommended when handling a large quantity of

toner or during long term exposure, as with any non-toxic dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Solid

Form: Powder

Color: Black

Odor: odorless

Ph **Boiling/Melting Point** : Not applicable : Not applicable : 100 - 130

Softening Point(°C) Flash Point(°C)

: Not applicable : No data

Ignition Point(°C) **Explosion Properties**

: No data

Density(g/cm³)

: Approx. 1.1 (bulk density : Approx. 0.4)

Solubility in water

: Negligible

10. STABILITY AND REACTIVITY

Stability

Hazardous Reactions

: Dust explosion, like most finely divided organic powders.

Conditions to Avoid

: Electric discharge, throwing into fire.

Materials to Avoid

: Oxidizing Materials

Hazardous Decomposition Products: CO, CO2 and NOX

Further information

: None

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingestion(oral)

: LD₅₀>2500mg/kg

Dermal

: LD₅₀>2500mg/kg

[Estimated form Acute oral toxicity for the same product]

[This material is now being tested on "Acute inhalation toxicity".]

Inhalation

: No data

: Not an irritant

Eve irritation Skin irritation

: Not an irritant

Skin sensitizer

: Not sensitized

Mutagenicity

: Negative(Ames Test)

and tumor development in rats.

Carcinogenicity

: In 1996 the IARC reevaluated carbon black as a Group 2B carcinogen (possible human

carcinogen). This classification is given to chemicals for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification 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 did not show any 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 toner exposure



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Chronic Effect

: In a study in rats of chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in22% of the animals in the middle (4mg/m³) exposure group, but no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human

12. ECOLOGICAL INFORMATION

No data are available.

13. DISPOSAL CONSIDERATIONS

Waste from residues

: Waste material may be dumped or incinerated under conditions which meet all federal,

state and local environmental regulations.

Contaminated Packaging: Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

UN Classification

Land

DOT(USA): None

Sea Air

IMDG : None ICAO-TI : None

15. REGULATORY INFORMATION

US Information

TSCA(Toxic Substances Control Act) :

All chemical substances in this product comply with all applicable rules or order under TSCA.

SARA(Superfund Amendments and Reauthorization Act) Title III

: None

302 Extreme Hazardous Substance: None

311/312 Hazard Classification

: None

EU Information

1999/45/EC and 67/548/EEC

Symbol & Indication

: Not required

R-Phrase

: Not required

76/769/EEC

: All chemical substances in this product comply with all applicable rules or

order under 76/769/EEC.

16. OTHER INFORMATION

NFPA Rating (USA)

Flammability=1 Reactivity=0 : Health=1

WHMIS Legislation (Canada)

: This product is not a controlled product.

References

IARC(1996): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 65,

Printing Process And Printing Inks, Carbon Black and Some Nitro Compounds, Lyon, pp.149-261 H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr,

S.Takenaka, and R.Mermelstein(1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats.

Fundamental and Applied Toxicology 17, pp.280-299.

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. However, all materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards which exist.