

Date Revised : Aug. 1, 2008 Date Issued : Jun. 1, 1998 MSDS No. F-00831

				1013D3 NO. F-00031
.PRODUC	T AND COM	PANY IDENTIFI	CATION	
Product N	lame	: AL-100TD / D	M-150TD / AL-110TD / AL-110DC (Black	Toner)
Supplier I	dentification			,
••			e-cho, Abeno-ku, Osaka, Japan	
Local	suppliers are		ase contact the nearest supplier for additic	nal information.
	Area	(Country)	(Name and Telephone	
		U.S.A.	Sharp Electronics Corporation	
			Sharp Plaza, Mahwah, NJ	
			Telephone number for information	: 1-800-237-4277
	North		Emergency telephone number	: 1-800-255-3924
	America	Canada	Sharp Electronics of Canada Ltd.	
		Canada	Telephone number for information	: 905-890-2100
			Emergency telephone number	: 1-800-255-3924
		Australia	Sharp Corporation of Australia PTY. Ltd	
	Oceania		No1 Huntingwood Drive Huntingwood	
			Telephone number for information	: 1300-13-50-22
		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	
	Europe		Telephone number for information	: 01-727-19-0
	Europe	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	
	Last		Telephone number for information	: 04-815311



MATERIAL SAFETY DATA SHEET

Date Revised : Aug. 1, 2008 Date Issued : Jun. 1, 1998 MSDS No. F-00831

2.COMPOSITION / INFORMATION ON INGREDIENTS

Substance[]	Preparation[X]					
Ingredient	CAS No.	Proportion	OSHA PEL	ACGIH TLV	MAK-TWA	NOHSC-TWA
Styrene-Acrylate copolymer	29497-14-1	35-45%	Not listed	Not listed	Not listed	Not listed
Styrene- Homopolymer	9003-53-6	35-45%	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/m ³
Iron oxide	1317-61-9	5-10%	Not listed	Not listed	Not listed	Not listed
Polypropylene	9010-79-1	1-5%	Not listed	Not listed	Not listed	Not listed
Parafrfine	8002-74-2	1-5%	Not listed	Not listed	Not listed	Not listed
Metal Complex dye*	109125-51-1 84179-66-8	< 1%	0.5mg/m ³	0.5mg/m ³	Not listed	Not listed
	* EC N0. : 400-	110-2, Symbol	letter : F,N , R I	Phrase : R11, R	50/53	

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	: not toxic to aquatic organisms
Specific Hazards	: Dust explosion (like most finely divided organic powders)
Directive 1999/45/EC(E	urope) : Not classified as dangerous

4.FIRST-AID MEASURES

Route(s) of Entry : Inhalation?	Skin?	Ingestion?	
Yes	No	Possible but very unusual.	
Inhalation : Remove to fresh air. If s	symptoms occur,	consult medical personnel.	
Skin Contact : Wash with soap and wa	ater for 15 minutes	s or until particle is removed.	
If irritation does occur, o	consult medical pe	ersonnel.	
Eve Contact · Flush eves immediately	with water for 15	minutes. 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				
Extinguishing Media	: Water, CO ₂ , foam and dry chemicals			
Special Fire Fighting Procedure	s : None			
Fire and Explosion Hazards	: Toner material, like most finely divided organic powders, may form an explosive mixture.			

6.ACCIDENTAL RELEASE MEASURES

Personal Precautions	: None
Environmental Precautions	: None
Methods for Cleaning Up	: Wipe off with paper or cloth. Do not use vacuum cleaner when a large amount is released. It, like most finely divided organic powders, is capable of creating a dust explosion.



Date Revised : Aug. 1, 2008 Date Issued : Jun. 1, 1998 MSDS No. F-00831

7.HANDLING AND STORAGE Handling **Technical Measures** : None Precautions : None 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** : None : Keep container closed and Store in a cool and dry place. Storage Conditions Keep out of the reach of children. Incompatible Products : None **8.EXPOSURE CONTROLS / PERSONAL PROTECTION Engineering Measures** Ventilation : Not required under intended use. **Exposure Limit Values** : 15mg/m³ (Total Dust), 5mg/m³ (Respirable Dust) OSHA-PEL(USA) ACGIH-TLV(USA) : 10mg/m³ (Total Dust), 3mg/m³ (Respirable Dust)

Personal Protective Equipmen	ıt
Respiratory Protection	: Not required under intended use.
Hand Protection	: Not required under intended use.
Eye Protection	: Not required under intended use.
Skin Protection	: Not required under intended use.
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	: Not applicable			
Boiling / Melting Point	: Not applicable			
Softening Point(°C)	: No data			
Flash Point(°C)	: Not applicable			
Ignition Point(°C)	: No data			
Explosion Properties	: No data			
Density(g/cm³)	: 1.1 (bulk density :	0.34)		
Solubility in Water	: Negligible			

10.STABILITY AND REACTIVITY

Stability	: Stable
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, CO ₂ and NO _X
Further Information	: None



Date Revised : Aug. 1, 2008 Date Issued : Jun. 1, 1998 MSDS No. F-00831

11.TOXICOLOGICAL INFORMATION

Acute Toxicity	
Ingestion(oral)	: LD ₅₀ > 2000mg/kg (Rats)
Dermal	: LD ₅₀ > 2000mg/kg (Rats)
Inhalation	: No Data
Eye irritation	: Not an irritant
Skin irritation	: Not an irritant
Skin sensitizer	: No sensitization
Mutagenicity	: Negative (Ames Test)
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 and tumor development in rats.
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/m ³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m ³) exposure group, but no pulmonary change was reported in the lowest (1mg/m ³) exposure group, the most relevant level to potential human exposures.

12.ECOLOGICAL INFORMATION

Ecotoxicity : On available data, toner is not harmful to aquatic organisms

13.DISPOSAL CONSIDERATIONS			
Waste from Residues : Waste material may be dumped or incinerated under conditions which meet all feder			
	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 : None Not classified as hazardous for transport.



Date Revised : Aug. 1, 2008 Date Issued : Jun. 1, 1998 MSDS No. F-00831

15.REGULATORY INFORMATION

US Information	
TSCA(Toxic Substances Control A	ct) :
	roduct comply with all applicable rules or order under TSCA.
SARA(Superfund Amendments and	
302 Extreme Hazardous Substar	
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.
16.0THER INFORMATION	

NFPA Rating (USA)	: Health=1	Flammability=1	Reactivity=0
WHMIS Legislation (Canada)	: This product is not a controlled product.		
List of R phrases	: R11 : Highly flammable		
	R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in		
the aquatic environment.			

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.