

DateRevised:Aug.2,2010

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MSDSNo.F-00831

1.PRODUCTANDCOMPANYIDENTIFICATION

ProductName : AL-100TD/DM-150TD/AL-110TD/AL-110DC(Black Toner)

SupplierIdentification : SharpCorporation

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

Localsuppliersarelistedbelow.Pleasecontactt henearestsupplierforadditionalinformation.

Area	(Country)	(Localsuppliers)
North America	U.S.A.	SharpElectronicsCorporation SharpPlaza,Mahwah,NewJersey07495-1163 Telephonenumber :800-237-4277 Emergencytelephonenumber :800-255-3924
	Canada	SharpElectronicsofCanadaLtd. 335BritanniaRoadEast,Mississauga,OntarioL4Z1 W9 Telephonenumber :905-890-2100 Emergencytelephonenumber :1-800-255-3924
Oceania	Australia	SharpCorporationofAustraliaPTY.Ltd. No1HuntingwoodDriveHuntingwoodBlacktownN.S.W. Telephonenumber :1300-13-50-22
Europe	Germany	SharpElectronics(Europe)GMBH Sonninstrasse3,20097Hamburg Telephonenumber :040-2376-2185
	United Kingdom	SharpElectronics(U.K.)Ltd. 4FurzegroundWay,StockleyPark,UxbridgeMiddlesex, UB111EZ Telephonenumber :08705-274-277
	France	SharpElectronicsFranceS.A. 22,AvenuedesNations,ParisNord2,BP52094/9 5948 Roissy-CharlesdeGaulle,Cedex Telephonenumber :01-49-90-34-00
	Austria	SharpElectronics(Europe)GmbH Handelskai3421020Wien Telephonenumber :01-727-19-0
	Italy	SharpElectronics(Italy)S.P.A. ViaLampedusa,1320141Milano Telephonenumber :02895951
	Spain	SharpElectronics(Espana)S.A. CalleSena,2-10PoligonolIndustrialCanSantJoan.Parcela8, 08174SantCugatDelValles Telephonenumber :93-581-97-00
	Netherlands	SharpElectronicsBeneluxB.V. P.B.900Meidoornkade10,3992AEHouten Telephonenumber :30-6359500
	Sweden	SharpElectronicsNordicAB Box14098,Gustavslundsvagen12,SE-16714,Brom ma Telephonenumber :08-634-36-00
	Switzerland	SharpElectronics(Schweiz)AG Moosstrasse2,Postfach3218803Ruschlikon Telephonenumber :01-846-6111
Middle East	U.A.E.	SharpMiddleEastFZE P.O.Box17115JebelAli,Dubai Telephonenumber :04-8815311

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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
Paraffin	8002-74-2	1-5%	Not listed	Not listed	Not listed	Not listed
Metal Complex dye*	109125-51-1	0.1-1%	0.5mg/m ³	0.5mg/m ³	Not listed	Not listed
	84179-66-8					

*ECN 0.: 400-110-2, Symbol letter: F, N, R Phras e: R11, R50/53

3. HAZARD 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 (Europe) : Not classified as dangerous

Australian Information : Not classified as hazardous according to criteria of NOHSC.

4. FIRST-AID MEASURES

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	No	Possible but very unusual.
Inhalation	: Remove to fresh air. If symptoms occur, consult medical personnel.		
Skin Contact	: Wash with soap and water for 15 minutes or until product 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.		
Ingestion	: Rinse with water and drink several glasses of water. If irritation or discomfort does occur, consult medical personnel.		

5. FIRE-FIGHTING MEASURES

Extinguishing Media	: Water, CO ₂ , foam and dry chemicals
Special Fire Fighting Procedures	: 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.

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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

Storage Conditions : Keep container closed and store in a cool and dry place. 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 ValuesOSHA-PEL(USA) : 15mg/m³(Total Dust), 5mg/m³(Respirable Dust)ACGIH-TLV(USA) : 10mg/m³(Total Dust), 3mg/m³(Respirable Dust)**Personal Protective Equipment**

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, CO₂ and NO_x**Further Information** : None**11. TOXICOLOGICAL INFORMATION****Acute Toxicity**Ingestion(oral) : LD₅₀ > 2000mg/kg(Rats)Dermal: LD₅₀ > 2000mg/kg(Rats)

Inhalation : No Data

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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 (16 mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4 mg/m³) exposure group, but no pulmonary change was reported in the lowest (1 mg/m³) 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 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 : None

Not classified as hazardous for transport.

15. REGULATORY INFORMATION

US Information

TSCA (Toxic Substances Control Act) :

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

SARA (Superfund Amendments and Reauthorization Act) Title III

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 orders under 76/769/EEC.

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16. OTHER 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. 6 5, 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 and 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.
