

# MATERIAL SAFETY DATA SHEET



## SECTION 1: Identification of the Substance and Company/Undertaking

1.1	<b>Product Identifier:</b>	<b>Remanufactured Laser Toner Samsung MLT-D1052S and L Black</b> Rev 1 23.09.2013
1.2	<b>Relevant identified uses of the substance and uses advised against</b>	
	<b>Use:</b>	Toner for use in Laser Printers
	<b>Relevant identified uses:</b>	See Above
	<b>Environmental release category:</b>	ERC8c (Wide dispersive indoor use resulting in inclusion into or onto a matrix) ERC11a (Wide dispersive indoor use of long-life articles and materials with low release)
	<b>Mixture supplied to that use in form of:</b>	A Mixture
	<b>Product Category by type of chemical:</b>	PC18 (Ink and Toners)
	<b>Sector of end use:</b>	SU3, 21, 22 (Industrial, Consumer and Professional uses)
	<b>Uses advised against:</b>	All other uses
1.3	<b>Details of the supplier of the Safety data Sheet</b>	
	<b>Address:</b>	Dynamic Cassette International Limited Marsh Lane Boston Lincolnshire PE21 7TX England
	<b>Telephone Number:</b>	+44 (0)1205 355555
	<b>Email Address:</b>	sales@dci.co.uk
1.4	<b>Emergency Telephone:</b>	+44 (0)1205 355555 or 07901 825565

## SECTION 2: Hazards Identification

2.1	<b>Classification of the substance</b>	
2.1.1	<b>Classification according to Regulation (EC) No</b>	None

# MATERIAL SAFETY DATA SHEET

<b>1272/2008 (including amendments):</b>	
<b>2.1.2 Classification according to EU Directive 67/548/EEC (including amendments):</b>	None
<b>2.2 Label elements:</b>	None
<b>Signal word:</b>	None
<b>Hazard statements:</b>	None
<b>Precautionary statements:</b>	None
<b>Prevention:</b>	None
<b>Storage:</b>	None
<b>2.3 Other Hazards:</b>	The product is a dry mixture of various ingredients producing only slight risk of irritation in their pure state, in particular to the respiratory tract when exposed to large amounts of toner dust
<b>2.4 Additional Information:</b>	The product is not classified as hazardous according to EC and National Regulations

## SECTION 3: Composition / Information on Ingredients

### 3.1 Substances

Product identifier type in accordance with Article 18(2) of Regulation (EC) No 1272/2008	Identifier number	Identification name	Weight % content (or range)	EC Number
CAS Number	1333-86-4	Carbon Black	<10%	
CAS Number	Trade Secret	Polyester Copolymer	<95%	
CAS Number	9003-07-0	Ethylene Propylene Wax	<10%	
CAS Number	31714-55-3	Charge Control Agent	<10%	
CAS Number	67762-90-7	Amorphous Silica	<5%	
CAS Number	409-21-2	Silicon Carbide	<5%	

## SECTION 4: First-Aid Measures

### 4.1 Description of First Aid Measures

# MATERIAL SAFETY DATA SHEET

<b>Ingestion:</b>	Rinse mouth with water. Give 2 cups of water, do not induce vomiting; seek medical advice if symptoms occur
<b>Skin contact:</b>	Clean affected areas with plenty of water, soap or other non-irritating cleanser. If irritation persists consult a physician
<b>Eye contact:</b>	Flush eyes with plenty of water until clear; remove contact lenses; seek medical advice if irritation persists
<b>Inhalation:</b>	Move the exposed person to fresh air at once. Seek medical advice if breathing is difficult
<b>First Aider Protection:</b>	None specific

## 4.2 Most important symptoms and effects, both acute and delayed

<b>Ingestion:</b>	Slight irritation of the gastro-intestinal tract
<b>Skin contact:</b>	Slight irritation
<b>Eye contact:</b>	Slight irritation
<b>Inhalation:</b>	Slight irritation of the respiratory tract

## 4.3 Indication of immediate medical attention and special treatment needed

<b>General advice:</b>	None specific
------------------------	---------------

---

## SECTION 5: Fire-Fighting Measures

---

### 5.1 Extinguishing media (small and large fires)

<b>Small Fire:</b>	Water, water mist, foam, dry powder, CO2
<b>Large Fire:</b>	Water, water mist, foam, dry powder, CO2
<b>Avoid:</b>	None

<b>5.2.1 Specific Hazards:</b>	This is a combustible material. May create toxic materials, carbon dioxide, carbon monoxide, various hydrocarbons etc. on thermal decomposition. It may form dust-explosive mixtures in the air
--------------------------------	---

<b>5.2.2 Protective equipment and advice for fire fighters:</b>	Self-contained breathing apparatus and full protective clothing
---	---

---

## SECTION 6: Accidental Release Measures

---

### 6.1 Personal precautions, protective equipment and emergency measures

<b>6.1.1 For non-emergency personnel:</b>	None specific
---	---------------

# MATERIAL SAFETY DATA SHEET

6.1.2	<b>For emergency responders:</b>	None specific
6.2	<b>Environmental precautions:</b>	Take precautionary measures against discharges into the environment
6.3	<b>Methods and material for containment and cleaning up</b>	
6.3.1	<b>For containment:</b>	No specific hazards foreseen
6.3.2	<b>For cleaning up:</b>	Vacuum spilled toner while minimising dust formation. If vacuum is used, the motor must be rated as dust tight. A conductive hose bonded to the machine should be used to reduce static build up. Transfer carefully into a sealable waste container. Residue can be removed with cold water and soap. Garments may be washed or dry-cleaned, after removal of any loose toner.
6.3.3	<b>Other information:</b>	None
6.4	<b>Reference to other sections:</b>	Section 8

## SECTION 7: Handling and Storage

7.1	<b>Precautions for Safe Handling:</b>	Handle with care Use with adequate ventilation Avoid inhalation of dust and contact with eyes and skin Keep containers closed when not in use Keep away from sources of heat, sparks and open flames
7.2	<b>Conditions for safe storage, including any incompatibilities:</b>	Store at room temperature in original container, dry and tightly closed. Do not store with oxidisers
7.3	<b>Specific end uses:</b>	Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

<b>Substance</b>	Deliberately left empty			
<b>CAS No.</b>				
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
USA OSHA		TWA / PEL; 15 mg/m <sup>3</sup>		

# MATERIAL SAFETY DATA SHEET

		(total dust) TWA / PEL; 5mg/m3 (respirable fraction)		
USA ACGIH		TWA / TLV; 10mg/m3 (inhalable fraction) TWA/TLV; 3MG/M3 (respirable particulate)		
United Kingdom		WEL; 10mg/m3 (inhalable dust) WEL 3mg/m3 (respirable dust)		

## 8.2 Exposure controls

### 8.2.1 Engineering controls:

Use in well ventilated areas. Use engineering controls to reduce air contaminants to below permissible limits

### 8.2.2 Personal protective equipment:

Wear dust resistant safety goggles if there is any danger of eye contact.  
Wear protective gloves to prevent direct skin contact.  
Wear an approved respirator for dust when exposure exceeds permissible limits

### 8.2.3 Environmental exposure controls:

Take precautionary measures against discharges into the environment

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance:

Black fine powder

Odour:

Faint

Odour threshold:

N/A

pH:

N/A

Melting point:

Softening point; -100 degrees C

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Evaporation rate:

N/A

Flammability:

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure:

N/A

# MATERIAL SAFETY DATA SHEET

Specific gravity: 1.3-1.8

Relative density (water=1): N/A

Solubility: Negligible in water; partial in toluene and xylene

Partition coefficient (n-octanol/water): N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Viscosity: N/A

Explosive properties: N/A

Oxidising properties: N/A

## 9.2 Other information

Critical Temperature: N/A

---

## SECTION 10: Stability and Reactivity

---

10.1 Reactivity: Product is stable under normal storage and usage conditions

10.2 Chemical stability: See above

10.3 Possibility of hazardous reactions: None

10.4 Conditions to Avoid: Heat, open flames, sparks and other sources of ignition. Keep dust away from ignition sources

10.5 Incompatible materials: Strong oxidisers

10.6 Hazardous decomposition products: May create toxic materials, carbon dioxide, carbon monoxide, various hydrocarbons etc. on thermal decomposition

---

## SECTION 11: Toxicological Information

---

### 11.1 Information on toxicological effects

Acute toxicity: Tests on toners have indicated that there is no evidence of acute oral toxicity with an LD50 (oral, rat) > 2500 mg/kg

Skin corrosion/irritation: Not classified

# MATERIAL SAFETY DATA SHEET

<b>Serious eye damage/irritation:</b>	Not classified
<b>Respiratory or skin sensitisation:</b>	Not classified
<b>Germ cell mutagenicity:</b>	Ames Test Negative
<b>Carcinogenicity:</b>	N/A
<b>Reproductive toxicity:</b>	Not classified
<b>STOT-single exposure:</b>	N/A
<b>STOT-repeated exposure:</b>	N/A
<b>Aspiration hazard:</b>	N/A
<b>Further information:</b>	None

---

## SECTION 12: Ecological Information

---

12.1	<b>Toxicity:</b>	This product has not been tested for environmental effects
12.2	<b>Persistence and degradability:</b>	N/A
12.3	<b>Bioaccumulative potential:</b>	N/A
12.4	<b>Mobility in soil:</b>	N/A
12.5	<b>Results of PBT and vPvB assessment:</b>	The mixture does not contain any ingredients which are PBT, vPvB or Substances of Very high Concern
12.6	<b>Other adverse effects:</b>	N/A

---

## SECTION 13: Disposal Considerations

---

13.1	<b>Waste treatment methods:</b>	Dispose of spilled or waste product in accordance with all local, state and federal regulations
------	---------------------------------	---

---

## SECTION 14: Transport Information

---

14.1	<b>UN Number:</b>	Not regulated
14.2	<b>UN proper shipping name:</b>	Not regulated
14.3	<b>Transport hazard class:</b>	Not regulated

# MATERIAL SAFETY DATA SHEET

14.4	<b>Packing group:</b>	Not regulated
14.5	<b>Environmental hazards:</b>	Not regulated
14.6	<b>Special Precautions for user:</b>	Not regulated
14.7	<b>Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code:</b>	Not regulated

## SECTION 15: Regulatory Information

15.1	<b>Safety, health and environmental regulations/legislation specific for the substance/mixture:</b>	The information contained in this safety data sheet does not constitute the users own assessment of workplace risks as required by other health and safety regulations This product has been assessed to ensure of compliance to the EU REACH and CLP Regulations
15.2	<b>Chemical Safety Assessment:</b>	The product is determined as not being hazardous

## SECTION 16: Other Information

<b>Methods of evaluation:</b>	None specific
<b>References:</b>	None specific
<b>Abbreviations:</b>	REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals CLP – Classification, labelling and Packaging of Substances and Mixtures EC No – European Commission Number UN Number - United Nations Committee of Experts WEL – Workplace Exposure Limit STOT – Specific Target Organ Toxicity PBT – Persistent, Bioaccumulative and Toxic vPvB - very Persistent and very Bioaccumulative TWA- Time Weighted Average OSHA – Occupational Safety and Health Administration

The information contained herein is carefully presented, based on the data we have. However, all precautions described herein are for normal handling, not for special handling. Please establish the safe usage in accordance with your handling procedures by reference to this SDS and applicable laws and guidance. In addition, the description, composition, and physical/chemical properties are typical values and not guaranteed for this product.

## Appendix 1: Exposure Scenarios





# MATERIAL SAFETY DATA SHEET

Company Registration 175 7389