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## MATERIAL SAFETY DATA SHEET

### Section 1: Chemical Product and Company Information

Trade Name:	CLT-08R
Product Class:	Black Toner
Chemical Formula:	Mixture
Company Identification:	LG Chemical Ltd. #599, Yongjei-dong, Iksan-city Chunbuk-do, 570-350, Korea
Telephone number:	+82-63-830-4161 for information
Issued:	Aug. 06, 2002

### Section 2: Composition / Information on Ingredients

Ingredients	Percent (Wt)	CAS No.
Styrene acrylic resin (苯乙烯丙烯酸树脂)	30~45	25036-16-2
Magnetite (磁铁矿)	45~55	1309-38-2
Polyolefin (聚烯烃)	1~5	Trade secret
Metal complex (金属)	1~5	Trade secret
Silica (硅石)	1~2	67762-90-7

### Section 3: Hazards Identification

**Emergency Overview:** Product is stable, nonflammable powder. If used as intended, the product does not present an acute or chronic health hazard.

**Physical Hazards:** This product is not classified as flammable or combustible. It will burn in case of fire. Avoid contact with strong oxidizers such as chromate, bromate and nitrates.

**Routes of Exposure:** Inhalation, dermal contact, incidental ingestion.

Inhalation: Excessive inhalation may cause irritation of the nose, throat and respiratory tract.

Eye Contact: Not an irritant.

Dermal Contact: Not an irritant, not a sensitizer.

Ingestion: None currently known.

**Chronic effects:** None currently known.

**Reproductive/Developmental:** None identified.

**Target Organs:** Prolonged breathing of high concentrations may cause adverse effects on the respiratory system.

**Signs and Symptoms of Exposure:** Prolonged exposure to dusts of this product may irritate the respiratory system.

**Medical Conditions Aggravated by Exposure to this Product:**

Respiratory disorders, such as asthma, may be aggravated by prolonged exposure to high concentrations of this product.

## MATERIAL SAFETY DATA SHEET

**Section 4: First Aid Measures****Inhalation:**

Remove to fresh air immediately. Get medical attention if needed.

**Eye Contact:**

In case of contact, immediately flush eyes with water for 15 minutes. Get medical attention if needed.

**Skin Contact:** Wash with soap and water. If irritation occurs or is persistent, seek medical attention

**Ingestion:** Dilute stomach contents with several glasses of water. Get medical attention.

**Section 5: Fire Fighting Measures****Suitable extinguishing media:**

CO<sub>2</sub>, dry chemical, foam or water.

Extinguishing media which may not be used for safety reasons:

None

**Ignition temperature:**

No data available

**Special protective equipment for fire fighters:**

None

**Unusual fire & explosion hazards:**

Toner material, like most organic material in powder form, is capable of creating a dust explosion

**Section 6: Accidental Release Measures**

**Spill / leak Procedures:** Wear personal protective equipment as described in Section 8. Avoid breathing dust. Minimize the release of particles. Vacuum or sweep the material into a bag or other Sealed container. If a vacuum is used, the motor must be rated as dust tight. Dispose Of waste toner in accordance with local requirements.

**Miscellaneous:** Keep product out of sewers and watercourses.

**Personal protection:** Avoid inhalation of dust.

**Section 7: Handling and Storage**

**Special Handling:** Cleanse skin after contact before breaks or meals, and end of workday.

**Special Storage:** Avoid direct sunlight. Keep out of reach of children. Store in a cool, dry place.

**Section 8: Exposure Control and Personal Protection Information:**

**Respiratory Protection:** None required under normal use.

**Hand Protection:** None required under normal use.

**Eye Protection:** None required under normal use.

**Skin Protection:** None required under normal use.

**Section 9: Physical and Chemical Properties****CHARACTERISTICS:**

**Appearance:** Fine black power

**Melting point:** 100~150°C (Softening point)

**Form:** Powder

**Vapor pressure:** n/a

**Odor:** Slight plastic odor

**Vapor density:** n/a

**Solubility in Water:** Negligible

**Evaporation rate:** n/a

**Specific gravity:** 1.0 ~ 1.5

**Boiling point:** n/a

**Section 10: Stability and Reactivity**

**Conditions to avoid:** None

**Materials to avoid:** None

**Stability:** Stable

## MATERIAL SAFETY DATA SHEET

Hazardous decomposition products: CO and CO<sub>2</sub> and other decomposition products when burned.

**Section 11: Toxicological Information:**

## Acute Toxicity:

Inhalation: LC<sub>50</sub>: inh-rat-5mg/L/4 hrs. (data from similar toner), not harmful.  
 Eye Contact: Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC (data from ingredients of toner).  
 Skin Contact: Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC.  
 Chronic Toxicity: No data available.  
 Sensitization: Not classified as a sensitizer according to EU Directive 67/548/EEC and strong sensitizer list of OSHA HCS (US).  
 Mutagenicity: Negative, does not indicate mutagenic potential, (Ames Test: Salmonella typhimurium).  
 Carcinogenicity: Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California).  
 Reproductive Toxicity: Not classified as toxic according to EU Directive 67/548/EEC, California Prop. 65, or DFG (Germany).

**Section 12: Environmental / Ecological Information**

None

**Section 13: Disposal Consideration**

Used Toner should be disposed of under conditions that meet all federal, state and local environmental regulations.

**Section 14: Transportation Information**

None. This is not a hazardous product.

**Section 15: Regulatory Information**

Chemicals Required to Report Under Sara Title III Section 313 (USA):	None
Chemicals Required to Report Under California Proposition 65 (USA):	None
Label Information According to the Directives 89/379/EEC and 67/548/EEC (EU):	
Symbol and Indications:	Not required.
Dangerous Components (CAS No.) wt%:	None
Other:	None
Special provisions in relation to protection of man or the environment:	
(EEC) 2455/92:	Not regulated.
76/769/EEC:	Not regulated.
(EC)3093/94:	Not regulated.
Other:	None

**Section 16: Miscellaneous Information**

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products as described or their suitability for a particular application.

For general information, contact LG Chemical Ltd. at +82-63-830-4161