

## **1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING**

## 1.1 **PRODUCT IDENTIFIER**

Product name: Samsung MLT-D103L High Yield Toner Cartridge Part number: ELI76105

## 1.2 IDENTIFIED USES AND USES ADVISED AGAINST

For use in: This mixture is a toner used in copiers/printers.

## 1.3 SUPPLIER DETAILS

| SUPPLIER DETAILS |                            |
|------------------|----------------------------|
| Supplier:        | SP Richards Co.            |
|                  | 6300 Highlands Parkway     |
|                  | Smyrna, GA 30082           |
|                  | United States              |
|                  | Phone number: 815-431-8100 |
|                  | Fax: 815-461-8583          |
| Contact Hours:   | 08:00AM-5:00PM CST         |
|                  |                            |

#### 1.4 **EMERGENCY TELEPHONE NUMBERS**

Supplier: 815-431-8100

\* This document provides safety-related information about toner contained in print cartridge for use in laser printer

## 2. HAZARDS IDENTIFICATION

## 2.1 INFORMATION and CLASSIFICATION

Overview: GHS Classification: Physical Chemical Hazard, Not applicable; Health Hazard, Not applicable; Environmental Hazard, Not applicable. GHS Label Element: Symbol, None; Signal word, None; Hazard statement, None. Precautionary statements: None.

### 2.2 LABEL ELEMENTS

| Applicable Pictograms: | NO<br>PICTOGRAM |
|------------------------|-----------------|
| Danger Indications:    | N/A             |
| Risk Phrases:          | N/A             |
| Safety Phrases:        | N/A             |

### 2.3 OTHER HAZARDS

PBT or vPvB: N/A



## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredients      | CAS number   | Weight % | OSHA<br>PEL | ACGIH<br>TLV | Other |
|------------------|--------------|----------|-------------|--------------|-------|
| Polyester        | TRADE SECRET | 80-90    | Not listed  | Not listed   |       |
| Polypropylene    | 9010-79-1    | 1-5      | Not listed  | Not listed   |       |
| Iron Oxide       | 1317-61-9    | 1-5      | Not listed  | Not listed   |       |
| Carbon Black     | 1333-86-4    | 5-15     | 3.5 mg/m3   | 3.0 mg/m3    |       |
| Amorphous Silica | 7631-86-9    | 1-5      | 20 mppcf    | None         |       |
|                  |              |          | TWA: 5.0    | TWA          |       |
|                  |              |          | mg/m3       | (2013): 3.0  |       |
|                  |              |          | (Inert of   | mg/m3 (Par   |       |
|                  |              |          | Nuisance    | ticulates    |       |
|                  |              |          | Dust:       | Not          |       |
|                  |              |          | Respirable  | Otherwise    |       |
|                  |              |          | fraction);  | Specified:   |       |
|                  |              |          | 15.0 mg/m3  | Respirable   |       |
|                  |              |          | (Inert of   | Particle     |       |
|                  |              |          | Nuisance    | Mass); 10.0  |       |
|                  |              |          | Dust: Total | mg/m3 (Par   |       |
|                  |              |          | dust)       | ticulates    |       |
|                  |              |          |             | Not          |       |
|                  |              |          |             | Otherwise    |       |
|                  |              |          |             | Specified:   |       |
|                  |              |          |             | Inhalable    |       |
|                  |              |          |             | Particle     |       |
|                  |              |          |             | Mass)        |       |

The Full Text for all R-Phrases are Displayed in Section 16

## **COMPOSITION COMMENTS**

The Data Shown is in accordance with the latest Directives.

This section provides composition information for the toner powder contained in specially designed container inside of the print cartridge.

## 4. FIRST-AID MEASURES

#### 4.1 FIRST AID MEASURES

### 4.1.1 FIRST AID INSTRUCTIONS BY RELEVANT ROUTES OF EXPOSURE

| Inhalation:   | Move to fresh air. If irritation persists, obtain medical advice.                                             |
|---------------|---------------------------------------------------------------------------------------------------------------|
| Eye contact:  | Flush eyes immediately with plenty of water within 15 minutes. If irritation persists, obtain medical advice. |
| Skin contact: | Wash with plenty of water and soap.                                                                           |
| Ingestion:    | Rinse mouth and give several glasses of water. If irritation persists, obtain medical advice.                 |

#### 4.1.2 **ADDITIONAL FIRST AID INFORMATION**

Additional first aid information: N/A Immediate Medical Attention Required: N/A

## 4.2 SYMPTOMS AND EFFECTS

Acute Symptoms from Exposure:N/ADelayed Symptoms from Exposure:N/A

## 4.3 IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED

NOTE TO PHYSICIAN: None.



## 5. FIRE-FIGHTING MEASURES

## 5.1 EXTINGUISHING MEDIA

Recommended Extinguishing Media:CO2, dry chemical, water.Extinguishing Media Not to be Used:Do not use a solid water stream as it may scatter and spread fire.

### 5.2 SPECIAL HAZARD

Unusual Fire/Explosion Hazards:HAZARDOUS COMBUSTION PRODUCTS: CO2, CO, Organic products of decomposition.Extinguishing Media Not to be Used:N/A

#### 5.3 ADVICE FOR FIRE FIGHTERS

Avoid inhalation of smoke. Wear protective cloting an wear self-contained breathing apparatus

#### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 **PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

### 6.1.1 **PRECAUTIONS FOR NON-EMERGENCY PERSONNEL**

Minimize the release of particulates. Wear personal protective equipment. Garments may be washed or dry cleaned, after removal of loose toner.

#### 6.1.2 ADDITIONAL FIRST AID INFORMATION

N/A

#### 6.1.3 **PERSONAL PROTECTION**

Wear personal protective equipment as described in Section 8.

#### 6.2 ENVIRONMENTAL PRECAUTIONS

Regulatory Information: Keep product out of sewers and watercourses.

### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANUP

Spill or Leak Cleanup Procedures: After spraying with water to prevent development of dusts, spills should be swept up or wiped up. Residuals can be removed with soap and water. Or slowly sweep spilled powder into paper and transfer into a suitable container for disposal. If sweeping them with a vacuum cleaner, a dust explosion-proof type must be used. Do not allow this preparation to contaminate ground water system.



## 7. HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

Recommendations for Handling:No special precautions when used as intended. Keep containers closed, avoid creating dust.<br/>Keep away from ignition sources.Advice on General Hygiene:Never eat, drink or smoke in work areas. Practice good personal hygiene after using this<br/>material, especially before eating, drinking, smoking, using the restroom, or applying

#### 7.2 CONDITIONS FOR SAFE STORAGE

Avoid high temperatures, >100°F/32°C

#### 7.3 SPECIFIC END USES

Printing devices

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

cosmetics.

#### 8.1 CONTROL PARAMETERS

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release in order to maintain airborne concentrations of the product below OSHA PELs (See Section 3). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

#### 8.2 EXPOSURE CONTROLS

#### **Respiratory protection:**

IMPROPER USE OF RESPIRATORS IS DANGEROUS. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134 and 1910.137) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given work conditions, levels of airborne contamination, and sufficient levels of oxygen.

#### **Eye/Face Protection:**

Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

#### Hand/Skin Protection:

For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. WARNING! Air purifying respirators do not protect worker in oxygen deficient atmospheres.

#### Additional Protection:

N/A

#### **Protective Clothing and Equipment:**

Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear splashproof chemical goggles and face shield when working with liquid, unless full face piece respiratory protection is worn.

#### Safety Stations:

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

#### **Contaminated Equipment:**

Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from your shoes and clean personal protective equipment. Never take home contaminated clothing.

#### Comments:

Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the restroom, or applying cosmetics.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 **DETAIL INFORMATION**

| Physical state:            | APPEARANCE: Black fine powder. |
|----------------------------|--------------------------------|
| Color:                     | Black                          |
| Odor:                      | Slight plastic odor.           |
| Odor threshold:            | N/A                            |
|                            |                                |
| Boiling point:             | N/A                            |
| Melting point:             | N/A                            |
| Flash point:               | N/A                            |
| Explosion limits:          | N/A                            |
| Relative density:          | ca. 1.2                        |
| Auto-ignition temperature: | N/A                            |
|                            |                                |

## 9.2 OTHER INFORMATION

SOLUBILITY IN WATER: Negligible. EXPLOSIVE PROPERTIES: Can form explosive dust-air mixtures when finely dispersed in air.

## **10. CHEMICAL STABILITY AND REACTIVITY**

## 10.1 Reactivity:

|      | Reactivity Hazards:<br>Data on Mixture Substances: | None<br>None                                                                                                |
|------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 10.2 | Chemical Stability:                                | The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur. |
| 10.3 | Hazardous Polymerization:                          | Stable under conditions of normal use.                                                                      |
| 10.4 | Conditions to Avoid:                               | Keep away from heat, flame, sparks and other ignition sources.                                              |
| 10.5 | Incompatible Materials:                            | Strong oxidising materials                                                                                  |
| 10.6 | Hazardous Decomposition:                           | Will not occur.                                                                                             |



## **11. INFORMATION ON TOXICOLOGICAL EFFECT**

| Mixtures:                     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute Toxicity:               | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Skin Corrosion/Irritation:    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Serious Eye Damage:           | Ν/Α                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Inhalation:                   | Ν/Α                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sensitization:                | Ν/Α                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Mutagenicity:                 | Negative in the Ames test. (Estimated from the data of other products or information of constituent components from raw material manufacturer.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Carcinogenicity:              | In 1996, the IARC revaluated Carbon Black as a GROUP 2B carcinogen (possible human carcinogen). This evaluation is given to Carbon Black for which there is inadequate human evidence, but sufficient animal evidence. The latter 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 have not demonstrated an 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. |
| <b>Reproductive Toxicity:</b> | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| STOT - Single Exposure:       | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| STOT - Multiple Exposure:     | In a study in rats (H. Muhle) by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the 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 changes was reported in the lowest (1 mg/m3) exposure group, the most relevant level to potential human exposures.                                                                                                                                                                                                                                                       |
| Ingestion:                    | Ν/Α                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Hazard Class Information:     | Ν/Α                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Mixture on Market Data:       | Ν/Α                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Symptoms:                     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Delayed/Immediate Effects:    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test Data on Mixture:         | REFERENCES: IARC (1996) IARC Monographs on the Evaluation of the Carcinogenic Risk of<br>Chemicals to Humans, Vol.65, Printing Process and Printing Inks, Carbon Black and Some Nitro<br>Compounds, Lyon, pp.149-261. H. Muhle, B. Bellmann, O. Creutzenberg, C. Dasenbrock, H. Ernst,<br>R. Kilpper, J.C. Mackenzie, P. Morrow, U. Mohr, S. Takenaka, and R. Mermelstein (1991) Pulmonary<br>Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology<br>17, p p280-299.                                                                                                                                                                                                        |
| Not Meeting Classification:   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Routes of Exposure:           | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Interactive Effects:          | Ν/Α                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Absence of Specific Data:     | Ν/Α                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Mixture vs Substance Data:    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



| 12. ECOLOGICAL INFORMATION             |                                                                                                                |  |  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------|--|--|
| 12.1 Eco toxicity:                     | N/A                                                                                                            |  |  |
| 12.2 Degradability:                    | N/A                                                                                                            |  |  |
| 12.3 Bioaccumulation Potential:        | N/A                                                                                                            |  |  |
| 12.4 Mobility in Soil:                 | N/A                                                                                                            |  |  |
| 12.5 <b>PBT &amp; vPvB Assessment:</b> | No results that the components of this toner meet the PBT or vPvB criteria under Regulation (EC) No 1907/2006. |  |  |
| 12.6 Other Adverse Effects:            | N/A                                                                                                            |  |  |

# 13. DISPOSAL CONSIDERATIONS

#### **Disposal Information:**

Dispose as a solid waste in accordance with local authority regulations. Empty container retains product residue.

### **Physical/Chemical Properties that affect Treatment:**

Symbol: This product is not classified as dangerous Risk Phrases: This product is not classified according to the federal, state and local environmental regulations.

#### Waste Treatment Information:

Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations.

## **Personal Protection Required:**

N/A

# 14. TRANSPORT INFORMATION

| 14.1 ID Number:             | None allocated. This is not a hazardous product. |
|-----------------------------|--------------------------------------------------|
| 14.2 Shipping Name:         | None allocated. This is not a hazardous product. |
| 14.3 Hazard Class:          | None allocated. This is not a hazardous product. |
| 14.4 Packing Group:         | None allocated. This is not a hazardous product. |
| 14.5 Environmental Hazards: | Ν/Α                                              |
| 14.6 User Precautions:      | Ν/Α                                              |
| 14.7 Bulk Transport:        | N/A                                              |



# 15. REGULATORY INFORMATION

| 15.1                                  | Regulatory Information:                | (USA Information) TSCA: All chemical substances in this product comply with all applicable rules or orders under TSCA. (EU Information) (EC) No 1907/2006: Authorizations on use - Not regulated, Restrictions on use - Not regulated; (EC) No 1272/2008: Classification - None, Hazard Class and Category Code(S) - None, Hazard statement Code(s) - None. |  |
|---------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                       | EPA Regulatory Information             | : N/A                                                                                                                                                                                                                                                                                                                                                       |  |
|                                       | CERCLA Reportable Quantity             | /: N/A                                                                                                                                                                                                                                                                                                                                                      |  |
| 15.2                                  | Superfund Information:                 |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                       | Hazard Categories:                     |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                       | Immediate: N/A                         |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                       | Delayed: N/A                           |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                       | Fire: N/A                              |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                       | Pressure: N/A                          |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                       | Reactivity: N/A                        |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                       | Section 302 - Extremely Hazardous: N/A |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                       | Section 311 - Hazardous: N//           | A                                                                                                                                                                                                                                                                                                                                                           |  |
| 15.3                                  | State Regulations:                     | N/A                                                                                                                                                                                                                                                                                                                                                         |  |
| 15.4                                  | Other Regulatory Information           | n: N/A                                                                                                                                                                                                                                                                                                                                                      |  |
| 16.                                   | OTHER INFORMATION                      |                                                                                                                                                                                                                                                                                                                                                             |  |
| Gene                                  |                                        | This information is based on our current knowledge. It should not therefore be construed as<br>guaranteeing specific properties of the products as described or their suitability for a particular<br>application                                                                                                                                           |  |
| Creation Date of this SDS: 09/22/2015 |                                        | 09/22/2015                                                                                                                                                                                                                                                                                                                                                  |  |



### Key to Abbreviations and Acronyms used in this sheet:

| ACGIH = American Conference of Governmental Industrial     | NIOSH = National Institute for Occupational Safety and Health |
|------------------------------------------------------------|---------------------------------------------------------------|
| Hygienists                                                 |                                                               |
| CERCLA = Comprehensive Environmental Response Compensation | OSHA = Occupational Health and Safety Administration          |
| and Liability Act                                          |                                                               |
| CLP = Classification, Labeling, and Packaging              | PEL = Permissible Exposure Limit                              |
| DSD = Dangerous Substances Directive                       | SCBA = Self Contained Breathing Apparatus                     |
| EPA = Environmental Protection Agency                      | STOT = Specific Target Organ Toxicity                         |
| GHS = Globally Harmonized System                           | TLV = Threshold Limit Value                                   |
| N/A = Not Applicable                                       | UK = United Kingdom                                           |
| NFPA = National Fire Protection Association                | UN = United Nations                                           |
|                                                            |                                                               |
|                                                            |                                                               |
|                                                            |                                                               |
|                                                            |                                                               |

Ref:

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