

1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product name: Toner Cartridge for Samsung ML-1610D2

Part number: SASML1610

1.2 IDENTIFIED USES AND USES ADVISED AGAINST

For use in: Laser Printers

1.3 SUPPLIER DETAILS

Supplier: Clover Imaging Group

4200 Columbus Street Ottawa, IL 61350 United States

Phone number: 815-431-8100

Fax: 815-461-8583

Contact Hours: 08:00AM-05:00PM CST

1.4 EMERGENCY TELEPHONE NUMBERS

Supplier: 815-431-8100

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 PICTOGRAM

Danger Indications: N/A
Risk Phrases: N/A
Safety Phrases: N/A

2.3 OTHER HAZARDS

PBT or vPvB: N/A

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^{*} This document provides safety-related information about ink/toner, in various forms, for use in copiers/printers etc.



3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA	ACGIH	Other
		-	PEL	TLV	
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		3.0 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 specified substance/mixture.

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/A
Delayed Symptoms from Exposure: N/A

4.3 IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED

NOTE TO PHYSICIAN: None.

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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 clothing and 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.

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7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Recommendations for Handling: No special precautions when used as intended. Keep containers closed. If toner, avoid

creating dust. Keep away from ignition sources.

Never eat, drink or smoke in work areas. Practice good personal hygiene after using this Advice on General Hygiene:

material, especially before eating, drinking, smoking, using the restroom, or applying

cosmetics.

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

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.

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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: None

Data on Mixture Substances: None

10.2 **Chemical Stability:** The product is stable. Under normal conditions of storage and use, hazardous

polymerization 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 oxidizing materials

10.6 Hazardous Decomposition: Will not occur.

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11. INFORMATION ON TOXICOLOGICAL EFFECT

Mixtures: N/A
Acute Toxicity: N/A
Skin Corrosion/Irritation: N/A
Serious Eye Damage: N/A
Inhalation: N/A
Sensitization: N/A

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.

Reproductive Toxicity: 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: N/A
Hazard Class Information: N/A
Mixture on Market Data: N/A
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

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, p p280-299.

Not Meeting Classification: N/A
Routes of Exposure: N/A
Interactive Effects: N/A
Absence of Specific Data: N/A
Mixture vs Substance Data: N/A

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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 **PBT & vPvB Assessment:** 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 of product 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:

If toner, 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: N/A

14.6 User Precautions: N/A

14.7 **Bulk Transport:** N/A

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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/A

16. OTHER INFORMATION

General Comments: This information is based on our current knowledge. It should not therefore be construed as

guaranteeing specific properties of the products as described or their suitability for a particular

application

Creation Date of this SDS: 07/22/2020

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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			

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This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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