

1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product name: Black Toner Cartridge for Samsung CLT-K404S
Part number: SASC480B

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

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

2. HAZARDS IDENTIFICATION

2.1 INFORMATION and CLASSIFICATION

Overview: Classification according to Regulation (EC) No 1272/2008: Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. Classification according to Directive 1999/45/EC: N; R52/53. Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1. Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1. Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3. Eye Dam. 1: Serious eye damage/eye irritation, Category 1. Skin Irrit. 2: Skin corrosion/irritation, Category 2. H228: Flammable solid. H302: Harmful if swallowed. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. H411: Toxic to aquatic life with long lasting effects. R11: Highly flammable. R22: Harmful if swallowed. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. F: Highly flammable. Xn: Harmful. N: Dangerous for the environment. Precautionary statements: P273 - Avoid release to the environment. P501 - Dispose of contents and container in accordance with local and national regulations.

2.2 LABEL ELEMENTS

Applicable Pictograms:



Danger Indications: Toxic to aquatic life with long lasting effects. Long-term inhalation of large amounts of dust type may cause lung damage. Normal use of this product generally does not result in inhalation of large amounts of dust. According to the International Agency for Research on Cancer (IARC) has classified carbon black as a Group 2B carcinogen. However, based on its scientific results supports a conclusion that carbon black in toners is not aiming to consumer warning.

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 PEL	ACGIH TLV	Other
Poly ester	Confidential	85-95			
Colorant	215-609-9 / 1333-86-4	1-5			
Charge control agent	403-360-0 / 42405-40-3	.1-.9			Flam. Sol. 1, H228. Acute Tox. 4, H302. Aquatic Acute 1 H400. Aquatic Chronic 1, H410
Releasing Agent	Confidential	1-10			
Additives	Confidential	1-5			

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:	Remove person to fresh air and keep comfortable for breathing.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
Skin contact:	Wash skin with plenty of water.
Ingestion:	Call a poison center or a doctor if you feel unwell.

4.1.2 ADDITIONAL FIRST AID INFORMATION

Additional first aid information:	Treat symptomatically.
Immediate Medical Attention Required:	Treat symptomatically.

4.2 SYMPTOMS AND EFFECTS

Acute Symptoms from Exposure:	Symptoms/injuries after eye contact: Serious damage to eyes.
Delayed Symptoms from Exposure:	N/A

4.3 IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Recommended Extinguishing Media: Water spray. Dry powder. Foam.

Extinguishing Media Not to be Used: N/A

5.2 SPECIAL HAZARD

Unusual Fire/Explosion Hazards: Hazardous decomposition products in case of fire: Toxic fumes may be released.

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

Ventilate spillage area. Avoid contact with skin and eyes.

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: Recover mechanically the product. Dispose of materials or solid residues at an authorized site.

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.

Advice on General Hygiene: 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.

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 splash-proof 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 Solid /Chemical powder.
Color:	Black
Odor:	No data available.
Odor threshold:	No data available.
Boiling point:	No data available.
Melting point:	No data available.
Flash point:	Not applicable
Explosion limits:	N/A
Relative density:	Not applicable.
Auto-ignition temperature:	N/A

9.2 **OTHER INFORMATION**

N/A

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.

11. INFORMATION ON TOXICOLOGICAL EFFECT

Mixtures:	N/A
Acute Toxicity:	Not classified.
Skin Corrosion/Irritation:	Not classified.
Serious Eye Damage:	Causes serious eye damage.
Inhalation:	Not classified.
Sensitization:	Not classified.
Mutagenicity:	Not classified.
Carcinogenicity:	According to the International Agency for Research on Cancer (IARC) has classified carbon black as a Group 2B carcinogen. However, based on its scientific results support a conclusion that carbon black in toners is not aiming to consumer warning.
Reproductive Toxicity:	Not classified.
STOT - Single Exposure:	Not classified.
STOT - Multiple Exposure:	Not classified.
Ingestion:	Not classified.
Hazard Class Information:	N/A
Mixture on Market Data:	N/A
Symptoms:	N/A
Delayed/Immediate Effects:	N/A
Test Data on Mixture:	N/A
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

12. ECOLOGICAL INFORMATION

12.1 Eco toxicity:	Ecology - general: Harmful to aquatic life with long lasting effects.
12.2 Degradability:	No additional information available.
12.3 Bioaccumulation Potential:	No additional information available.
12.4 Mobility in Soil:	No additional information available.
12.5 PBT & vPvB Assessment:	No additional information available.
12.6 Other Adverse Effects:	No additional information available.

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:** Not subject to transport regulations.
- 14.2 **Shipping Name:** Not relevant.
- 14.3 **Hazard Class:** N/A
- 14.4 **Packing Group:** Not relevant.
- 14.5 **Environmental Hazards:** Non (non-environmentally hazardous acc. to the dangerous goods regulations)
- 14.6 **User Precautions:** No data available.
- 14.7 **Bulk Transport:** No data available.

15. REGULATORY INFORMATION

- 15.1 **Regulatory Information:** EU - Regulations: The substances in the mixture are not subject to the authorization under Title VII nor restrictions under Title VII of Regulation (EC) No. 1907/2006.

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

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Key to Abbreviations and Acronyms used in this sheet:

ACGIH = American Conference of Governmental Industrial Hygienists	NIOSH = National Institute for Occupational Safety and Health
CERCLA = Comprehensive Environmental Response Compensation and Liability Act	OSHA = Occupational Health and Safety Administration
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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