



# MATERIAL SAFETY DATA SHEET

## [1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : CLP-K660A, CLP-K660B  
COMPANY : Samsung Electronics Company  
416, Maetan-3Dong, Yeongtong-Gu, Suwon-City, Gyeonggi-Do, Korea 443-742  
TELEPHONE NO. : 82-31-200-8311  
EMERGENCY TELEPHONE NO. : 82-31-200-8311

## [2. COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE / MIXTURE : Mixture  
CHEMICAL NAME : Black Toner  
(GENERIC NAME)  
CHEMICAL FORMULA : Not specified  
CAS RN : Confidential  
UN No. : Not applicable  
EINECS : No(ELINCS)  
ECL : Yes  
TSCA : Yes  
OTHER INFORMATION : Contains :Silica dioxide about 3% .  
Titanium dioxide about 1%  
Carbon Black about 4%

## [3. HAZARDS IDENTIFICATION]

FIRE AND EXPLOSION HAZARD : May cause risk of dust explosion.  
POTENTIAL HEALTH EFFECTS : To the best of our investigation, No special hazards have to be  
ENVIRONMENTAL EFFECTS : To the best of our investigation, No special hazards have to be

## [4. FIRST-AID MEASURES]

IN CASE OF EYE CONTACT : Immediately hold eyelids open and flush with a stream of water for at least 15 minutes. If necessary seek medical attention.  
IN CASE OF SKIN CONTACT : Wash material off the skin with plenty of water and soap. If necessary seek medical attention.  
IN CASE OF INHALATION : Remove person to fresh air. If necessary seek medical attention.  
IN CASE OF INGESTION : Seek medical attention. Never give anything by mouth to an unconscious person. If possible, rinse out mouth and give one or two glasses of water or milk to drink.

## [5. FIRE-FIGHTING MEASURES]

EXTINGUISHING MEASURES : Risk of producing harmful gases such as carbon monoxide and



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EXTINGUISHING AGENTS : nitrogen oxides. Avoid inhalation of smoke or gases.  
: In case of small fire use powder, carbon dioxide  
In case of large fire shut off air by spraying with water or foam.

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#### [6.ACCIDENTAL RELEASE MEASURES]

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: In case of spill vacuum material immediately. Then wipe up remainder in waste cloth.

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#### [7.HANDLING AND STORAGE]

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HANDLING : Fight fire from upwind position.  
Avoid inhalation of dust.  
Prevent generation of dust  
Avoid inhalation of fine dust .

STORAGE : Protect from sun. Store in a cool room.(under 40 C)

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#### [8.EXPOSURE CONTROLS / PERSONAL PROTECTION]

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ACGIH(TLV) : Not established  
OSHA(PEL) : Not established  
VENTILATION : Use local exhaust ventilation or general ventilation

PROTECTIVE MEASURES

RESPIRATORY PROTECTIVE : Dust respirator

EQUIPMENTS

EYE PROTECTIVE EQUIPMENTS : Safety goggles  
HAND PROTECTIVE EQUIPMENTS : Rubber gloves  
PROTECTIVE CLOTHINGS : Use as appropriate to situation.

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#### [9.PHYSICAL AND CHEMICAL PROPERTIES]

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APPEARANCE : Black powder  
ODOUR : Odourless  
BOILING POINT : No data available  
VAPOUR PRESSURE : No data available  
VAPOUR DENSITY : No data available  
VOLATILITY : No data available  
MELTING / FREEZING POINT : No data available  
SPECIFIC GRAVITY : 1.2 ( 20.0 )  
SOLUBILITY

WATER SOLUBILITY : No data available  
SOLVENT SOLUBILITY : A part of component is soluble in toluene, chloroform and tetrahydrofuran

pH : No data available  
VISCOSITY : No data available  
OCTANOL / WATER : No data available



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**PARTITION COEFFICIENT**

OTHER INFORMATION : None

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**[10.REACTIVITY AND STABILITY]**

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FLASH POINT : Not applicable  
AUTOIGNITION TEMPERATURE : No data available  
EXPLOSIVE LIMIT IN AIR(LEC) : No data available  
EXPLOSIVE LIMIT IN AIR(UEC) : No data available  
COMBUSTIBILITY : Yes  
OXIDIZABILITY : No  
SELF-REACTIVITY / EXPLOSIVITY : This material may cause risk of dust explosion.  
REACTIVITY AND STABILITY : Stable in general  
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS : No data available  
OTHER INFORMATION : None

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**[11.TOXICOLOGICAL INFORMATION]**

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CORROSIVITY : No data available  
SKIN IRRITATION : No data available  
EYE IRRITATION : No data available  
SENSITIZATION : No data available  
ACUTE TOXICITY : No data available  
SUBCHRONIC EFFECTS : No data available  
CHRONIC EFFECTS : No data available  
CARCINOGENICITY : No data available  
IARC : Group 3.The agent is not classifiable as to its carcinogenicity to humans.(Silica)  
Group 2B. The agent is possibly carcinogenic to humans.(Titanium)  
Group 2B. The agent is possibly carcinogenic to humans.(Carbon)  
NTP : None of this product's components are listed  
OSHA : None of this product's components are listed  
MUTAGENICITY : Ames test (TA98,TA100,TA1535,TA1537,TA1538, WP2uvrA) : Negative  
REPRODUCTIVE EFFECTS : No data available  
TERATOGENICITY : No data available  
OTHER INFORMATION : None

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**[12.ECOLOGICAL INFORMATION]**

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BIODEGRADABILITY : No data available  
BIOACCUMULATION : No data available  
FISH TOXICITY : No data available  
OTHER INFORMATION : None

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**[13.DISPOSAL CONSIDERATIONS]**

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Review "HANDING AND SRORAGE(Section7)"  
Dispose of waste in accordance with local, state and federal regulations.  
Passed to a licensed waste contractor.



Incinerate with little portions.  
Risk of producing harmful gases such as carbon monoxide and nitrogen oxides.

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[14.TRANSPORTATION INFORMATION]

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PRECAUTIONS	: Follow all regulations in your country or region. : Review "ACCIDENTAL RELEASE MEASURES(Section6)" Review "HANDLING AND STORAGE(Section7)" Handle container carefully to avoid shock. Do not fall or crash Keep dry
PROPER SHIPPING NAME	: Non hazardous
HAZARD CLASS	: Not applicable
UN NO.	: Not applicable
PACKING GROUP	: Not applicable
HAZARD LABE	: Not applicable

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[15.REGULATORY INFORMATION]

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EINECS	: No	Follow all regulations in your country or region. (ELINCS)
ECL	: Yes	
TSCA	: Yes	

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[16.OTHER INFORMATION]

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REFERENCES : None

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