



# MATERIAL SAFETY DATA SHEET

## [1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : ML-D3050A  
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)  
TSCA : Yes  
OTHER INFORMATION : Contains :Silica dioxide about 2% .  
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  
nitrogen oxides. Avoid inhalation of smoke or gases.  
EXTINGUISHING AGENTS : In case of small fire use powder, carbon dioxide  
In case of large fire shut off air by spraying with water or foam.

## [6.ACCIDENTAL RELEASE MEASURES]

: 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 EQUIPMENTS	: Dust respirator
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
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)  
NTP : Group 2B. The agent is possibly carcinogenic to humans.(Carbon  
OSHA : None of this product's components are listed  
MUTAGENICITY : None of this product's components are listed  
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 "HANDLING AND STORAGE(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 LABELS : Not applicable

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[15.REGULATORY INFORMATION]

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



[16.OTHER INFORMATION]

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REFERENCES : None

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