

MATERIAL SAFETY DATA SHEET

[1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME: ML-D4550B

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 INGERDIENTS]

SUBSTANCE / MIXTURE

CHEMICAL NAME

: Black Toner

: No(ELINCS)

: Mixture

(GENERIC NAME)

EINECS

CHEMICAL FORMULA : Not specified CAS RN : Confidential UN No. : Not applicable

TSCA : Yes

OTHER INFORMATION : Contains : Silica dioxide about 2%.

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 MEASUARES]

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.

[7.HANDLING AND STORAGE]

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)

[8.EXPOSURE CONTROLS / PERSONAL PROTECTION]

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.

[9.PHYSICAL AND CHEMICAL PROPERTIES]

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 tetrahydrofurar

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

PARTITION COEFFICIENT

OTHER INFORMATION : None





[10.REACTIVITY AND STABILITY]

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 : No data available

OR DECOMPOSITION PRODUCTS

OTHER INFORMATION : None

[11.TOXICOLOGICAL INFORMATION]

CORROSIVITY : No data available SKIN IRRITATION : No data available **EYE IRRITATION** : No data available **SENSITIZATION** : No data available **ACUTE TOXICITY** : No data available : No data available SUBCHRONIC EFFECTS **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 3. The agent is not classifiable as to its carcinogenicity to

humans.(Titanium)

Group 2B. The agent is possibly carcinogenic to humans.

(Carbon black)

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

[12.ECOLOGICAL INFORMATION]

BIODEGRADABILITY : No data available
BIOACCUMULATION : No data available
FISH TOXICITY : No data available

OTHER INFORMATION : None

[13.DISPOSAL CONSIDERATIONS]

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.





[14.TRANSPORTATION INFORMATION]

Follow all regulations in your country or region.

PRECAUTIONS : 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

[15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

EINECS : No (ELINCS)

TSCA : Yes

[16.OTHER INFORMATION]

REFERENCES: None

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