

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- A) Product Name : ML-D1630A, D2850A, D2850B, SF-D560RA,
MLT-D109S, D1092D, D106S, D1062S, D209S, D2092S,
D209L, D2092L
- B) COMPANY : Samsung Electronics Company
416, Maetan-3Dong, Yeongtong-Gu, Suwon-City, Gyeonggi-Do, Korea 443-742
- C) TELEPHONE NO. : 82-31-200-8311
- D) EMERGENCY TELEPHONE NO.: 82-31-200-8311

2. HAZARDS IDENTIFICATION]

A) MOST IMPORTANT HAZARDS AND EFFECTS

B) GHS CLASSIFICATION

- PHYSICAL AND CHEMICAL HAZARDS : Not classified
- HEALTH HAZARDS
 - ACUTE TOXICITY (Oral) : Not classified
 - ACUTE TOXICITY (Dermal) : Not applicable (Vapours)
 - ACUTE TOXICITY (Inhalation) : Classification not possible
 - SKIN CORROSION / IRRITATION : Classification not possible
 - SERIOUS EYE DAMAGE / EYE IRRITATION : Classification not possible
 - RESPIRATORY SENSITIZATION : Classification not possible
 - SKIN SENSITIZATION : Classification not possible
 - GERM CELL MUTAGENICITY : Classification not possible
 - CARCINOGENICITY : Category 2
 - REPRODUCTIVE TOXICITY : Classification not possible
 - SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY
 - SINGLE EXPOSURE : Classification not possible
 - REPEATED EXPOSURE : Category 1(lung)
 - ASPIRATION HAZARD : Classification not possible

C) ENVIRONMENTAL HAZARDS

- HAZARDOUS TO THE AQUATIC ENVIRONMENT
 - ACUTE TOXICITY : Classification not possible
 - CHRONIC TOXICITY : Classification not possible

D) GHS LABEL ELEMENTS

- PICTOGRAMS OR SYMBOLS :



- SIGNAL WORD : Danger
- HAZARD STATEMENTS : Suspected of causing cancer
Causes damage to organs through prolonged or repeated exposure

(lung)

- PRECAUTIONARY STATEMENTS
- PREVENTION : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapours/spray.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
if needed, use personal protective equipment as required.
- RESPONSE : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN: Gently wash with plenty of soap and water.
IF exposed or concerned: Get medical attention/advice.

- STORAGE : Store locked up.
Protect from sun. Store in a well-ventilated room (under 40 C)
- DISPOSAL : Passed to a licensed waste contractor.
- SAFE HANDLING ADVICE

3. COMPOSITION / INFORMATION ON INGREDIENTS]

- A) SUBSTANCE OR MIXTURE : Mixture
- B) INGREDIENTS AND CONCENTRATION RANGE

Ingredients Concentration	Range(%)	AS RN
Non-linear type polyester resin from DSA	Confidential	Confidential
Carbon black	Confidential	1333-86-4
Paraffin waxes and Hydrocarbon waxes	Confidential	8002-74-2
Other components	Confidential	

4. FIRST-AID MEASURES

- A) IN CASE OF INHALATION : Remove to fresh air and keep at rest in a position comfortable for breathing.
IF exposed or concerned: Get medical attention/advice.
- B) IN CASE OF SKIN CONTACT : Gently wash with plenty of soap and water.
IF exposed or concerned: Get medical attention/advice.
- C) IN CASE OF EYE CONTACT : IF exposed or concerned: Get medical attention/advice.
Get medical attention/advice if you feel unwell.
- D) IN CASE OF INGESTION : Call a POISON CENTER or doctor/physician if you feel unwell.
IF exposed or concerned: Get medical attention/advice.

5. FIRE-FIGHTING MEASURES

- A) EXTINGUISHING MEDIA : Water Spray, powder
- B) NOT SUITABLE EXTINGUISHING MEDIA : No information available
- C) MEDIA
- D) SPECIFIC HAZARDS : May produce irritating or toxic gases in a fire.
- E) SPECIFIC METHODS : Keep away from sources of ignition and use appropriate extinguishing Media. Fight fire from upwind position if possible.
- F) PROTECTION OF FIREFIGHTERS : Use goggles in combination with dust mask, and another protection as appropriate to situation.

6. ACCIDENTAL RELEASE MEASURES

- A) PERSONAL PREAUTIONS, : Use mask, goggles and protective gloves.
- B) PROTECTIVE EQUIPMENT AND Large spills : Remove person to safety.
- C) EMERGENCY PROCEDURE : Ensure adequate ventilation.
Treat from upwind position.
- D) ENVIRONMENTAL PRECAUTIONS : Do not discharge into the drains, surface waters or ground
water directly.
- E) METHODS FOR CLEANING UP : Prevent dispersion of dust.
Sweep or vacuum by dust-explosion-proof type cleaner.
- F) PREVENTION OF SECONDARY : No information available
- G) HAZARDS

7. HANDLING AND STORAGE

A) HANDLING	
○ TECHNICAL MEASURES	: Facilities Storing or utilizing this material should be equipped
○ PRECAUTIONS	: with an eyewash facility and a safety shower.
○ SAFE HANDLING ADVICE	: Avoid inhalation of fine dust .
	: Use an adequate ventilation.
	: Wash thoroughly after handling.
	: Use personal protective equipment as required.
	: Do not breathe dust/fume/gas/mist/vapours/spray.
	: Do not eat, drink or smoke when using this product.
	: This material may cause risk of dust explosion.
B) STORAGE	
○ STORAGE CONDITIONS	: Store locked up.
	: Keep container tightly closed.
	: Protect from sun. Store in a well-ventilated room(under 40°C)
○ PACKAGING MATERIALS	: No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

A) ENGINEERING MEASURES	: Facilities storing or utilizing this material should be equipped
	: with an eyewash facility and a safety shower.
	: Use local exhaust ventilation, in case of generation of dust.
B) LIMIT VALUES	
C) ACGIH(TLV)	: 3.5mg/m ³ TWA
	: Carbon black
	: TWA 2mg/m ³
	: Paraffin wax fume
	: 10mg/m ³ TWA (inhalable particles,
	: TWA (respirable particles, recommended)(Particulates (insoluble or poorly soluble) not otherwise specified
recommended);3mg/m ³	
(PNOS))	
D) OSHA(PEL)	: 3.5mg/m ³ TWA
	: Carbon black
	: 15mg/m ³ TWA (total dust);5mg/m ³ TWA(respirable
fraction)	: (Particulates not otherwise regulated)
E) PERSONAL PROTECTIVE EQUIPMENT	
○ RESPIRATORY PROTECTION	: Use dust mask, as appropriate to situation.
○ HAND PROTECTION	: Rubber gloves
○ EYE PROTECTION	: Safety glasses with side shield (Safety goggles or Face shield)
○ SKIN AND BODY PROTECTION	: Full-body suit
F) HYGIENE MEASURES	: No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

A) PHYSICAL STATES	
○ FORM	: Pulverizing powder
○ COLOUR	: Black
○ ODOUR	: Odourless
○ pH	: No data available
B) SPECIFIC TEMPERATURES/TEMPERATURE RANGES	
C) AT WHICH CHANGES IN PHYSICAL STATE OCCUR	
○ BOILING POINT	: No information available

○ MELTING POINT	: No information available
○ FLASH POINT	: No data available
D) FLAMMABILITY OR EXPLOSIVE PROPERTIES	
○ FLAMMABILITY OR EXPLOSIVE LIMIT : No	: UPPER LIMIT: No information available LOWER information available
○ LIMITS	
E) VAPOUR PRESSURE	: No information available
F) VAPOUR DENSITY	: No information available
G) SPECIFIC GRAVITY(DENSITY)	: 1.2 g/mL (20 °C) (68 °F)
H) SOLUBILITY	
○ WATER SOLUBILITY	: Insoluble
○ SOLVENT SOLUBILITY	: Partially soluble in toluene, chloroform and tetrahydrofurane.
I) PARTITION COEFFICIENT	:n- : No information available
J) OCTANOL/WATER (log Pow)	: No information available
K) AUTOIGNITION TEMPERATURE	: No information available
L) DECOMPOSITION TEMPERATURE	: No information available
M) ODOUR THRESHOLD	: No information available
N) EVAPORATION RATE	: No information available
O) FLAMMABILITY (SOLID, GAS)	: No information available
P) VISCOSITY	: No information available
Q) OTHER DATA	: No information available

10. REACTIVITY AND STABILITY

A) CHEMICAL STABILITY	: Stable in general.
B) POSSIBILITY OF HAZARDOUS	: Stable.
C) REACTIONS	
D) CONDITIONS TO AVOID	: No information available
E) INCOMPATIBLE MATERIALS	: No information available
F) HAZARDOUS DECOMPOSITION	: No information available
G) PRODUCTS	
H) OTHERS	: No information available

11. TOXICOLOGICAL INFORMATION

A) ACUTE TOXICITY	
○ Oral	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available
○ Dermal	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available
○ Inhalation	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available
B) SKIN CORROSION / IRRITATION	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available
C) SERIOUS EYE DAMAGE/IRRITATION	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: Paraffin waxes and Hydrocarbon waxes: Category
2B;Ref.(1)	
D) RESPIRATORY OR SKIN SENSITIZATION	
○ RESPIRATORY	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available
E) SKIN	
INFORMATION ON PRODUCT	: No information available

INFORMATION ON INGREDIENTS	: No information available
F) MUTAGENICITY (GERM CELL MUTAGENICITY)	
INFORMATION ON PRODUCT	: Ames test (TA98, TA100, TA1535, TA1537, TA1538, WP2uvrA) : Negative
INFORMATION ON INGREDIENTS	: No information available
G) CARCINOGENICITY	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: Carbon black : Category 2;Ref.(1)
IARC	: Group 2B : Possibly carcinogenic to humans. Carbon black
NTP	: Not listed
EU	: Not listed
OSHA	: Not listed
H) REPRODUCTION TOXICITY	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available
I) SPECIFIC TARGET ORGAN SYSTEMIC TOCICITY	
- SINGLE EXPOSURE	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available
- REPEATED EXPOSURE	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: Carbon black : Category 1 (lung); Ref.(1)
J) ASPIRATION HAZARD	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available
K) OTHER INFORMATION	: No information available

12. ECOLOGICAL INFORMATION

A) ECOTOXICITY	: No information available
B) PERSISTENCE / DEGRADABILITY	: No information available
C) MOBILITY IN SOIL	: No information available
D) BIOACCUMULATION POTENTIAL	: No information available
E) OTHER ADVERSE EFFECTS	: No information available

13. DISPOSAL CONSIDERATIONS

Review "HANDLING AND SRORAGE(Section7)"
 Passed to a licensed waste contractor.
 This product may cause risk of dust explosion.
 Dispose of waste in accordance with local, state and federal regulations.

14. TRANSPORTATION INFORMATION

A) Follow all regulations in your country or region.	
o UN CLASS / UN NUMBER	: Not applicable
B) SPECIAL PRECAUTIONS FOR USER MEASURES(Section 6)".	: Review "ACCIDENTAL RELEASE
	Review "HANDLING AND STORAGE (Section 7)". Ensure containers without breakage or leakage. Ensure containers tightly fixed. Follow all regulations in your country or region.

15. REGULATORY INFORMATION

Follow all regulations in your country or region.	
INVENTORIES	: ENCS(Japan) Yes TSCA(USA) Yes

EINECS(EU) No(ELINCS)
AICS(Australia) Yes
DSL(Canada) No(NDSL)
ECL(Korea) Yes
PICCS(Philippines) Yes
IECSC(China) Yes

16. OTHER INFORMATION

REFERENCES

(1994)

: - Safety data sheet for chemical product . Part 1 : Content and order of sections(ISO 11014-1)

- International Chemical Safety Cards(ICSC) (Compiler's Guide)

(1) GHS Classification Database, National Institute of Technology and Evaluation (NITE)

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Material Safety Data Sheet

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