

MATERIAL SAFETY DATA SHEET

[1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : CLP-C660A, CLP-C660B
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 : Cyan Toner

INGREDIENTS AND CONCENTRATION RANGE

| Ingredients | Concentration Range(%) | CAS RN |
|-----------------|------------------------|--------------|
| Polyester resin | 70 - 90 | Trade Secret |
| Wax | 1 - 10 | Trade Secret |
| Cyan pigment | 1 - 10 | Trade Secret |
| Silica | 1 - 5 | Trade Secret |

[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.

[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 : Cyan 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



[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 OR DECOMPOSITION PRODUCTS | : No data available |
| 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 |
| 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) |
| 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]



| | |
|----------------------|---|
| 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 |

[15.REGULATORY INFORMATION]

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

[16.OTHER INFORMATION]

REFERENCES : None

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