



# MATERIAL SAFETY DATA SHEET

## [1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : CLP-510D5Y  
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 OR PREPARATION : Preparation

### INGREDIENTS AND CONCENTRATION RANGE

Ingredients	Concentration Range(%)	CAS RN
Yellow Toner	Confidential	

INGREDIENTS CONTRIBUTING TO THE HAZARD(JAPAN) : None

## [3.HAZARDS IDENTIFICATION]

MOST IMPORTANT HAZARDS :  
ADVERSE HUMAN HEALTH EFFECTS : To the best of our investigation, no special hazards have to be mentioned.  
ENVIRONMENTAL EFFECTS : To the best of our investigation, no information about adverse effect in the environment available.  
PHYSICAL AND CHEMICAL HAZARDS : This material is not dangerous in case of usual handling.  
CLASS NAME FOR MSDS IN JAPAN : Not applicable

## [4.FIRST-AID MEASURES]

IN CASE OF INHALATION : Remove person to fresh air. 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 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 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 MEDIA : Water spray, powder  
NOT SUITABLE EXTINGUISHING MEDIA : No information available  
SPECIFIC HAZARDS : May produce irritating or toxic gases in a fire.  
SPECIFIC METHODS : Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.  
PROTECTION OF FIREFIGHTERS : Use goggles in combination with dust mask, and another protections as appropriate to situation.



[6.ACCIDENTAL RELEASE MEASURES]

PERSONAL PRECAUTIONS : Use mask, goggles and protective gloves.  
Large spills : Remove person to safety.  
Ensure adequate ventilation. Treat from upwind position.

ENVIRONMENTAL PRECAUTIONS : Do not discharge into the drains, surface waters or ground water directly.

METHODS FOR CLEANING UP : Sweep or vacuum spills.  
Prevent dispersion of dust.

PREVENTION OF SECONDARY HAZARDS : No information available

[7.HANDLING AND STORAGE]

HANDLING

TECHNICAL MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PRECAUTIONS : Avoid inhalation of fine dust .

SAFE HANDLING ADVICE : Handle in well-ventilated areas.  
Use safety glasses and protective gloves as appropriate to situation.  
Wash hands and face and gargle after handling.  
Prevent generation of dust.

STORAGE

STORAGE CONDITIONS : 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]

ENGINEERING MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.  
Use an adequate ventilation.  
Use local exhaust ventilation, in case of generation of dust.

LIMIT VALUES :

ACGIH(TLV) : TWA 3mg/m3(respirable particulate)  
TWA 10mg/m3(inhalable particulate)(Particulates Not Otherwise Classified)

OSHA(PEL) : Not established

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

HYGIENE MEASURES : No information available

[9.PHYSICAL AND CHEMICAL PROPERTIES]

PHYSICAL STATES

FORM : Pulverizing powder

COLOUR : Red

ODOUR : Odourless

pH : Not applicable

SPECIFIC TEMPERATURES/TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR



BOILING POINT : No data available  
MELTING POINT : No data available  
DECOMPOSITION TEMPERATURE : No data available  
FLASH POINT : Not applicable  
AUTOIGNITION TEMPERATURE : No data available

EXPLOSION PROPERTIES

EXPLOSION : UPPER LIMIT: No data available : LOWER LIMIT No data available  
VAPOUR PRESSURE : No data available  
VAPOUR DENSITY : No data available  
DENSITY : 1.2 g/mL (20 °C ) (68 °F)  
SOLUBILITY  
WATER SOLUBILITY : Insoluble  
SOLVENT SOLUBILITY : Partially soluble in toluene, chloroform and tetrahydrofuran.  
OCTANOL/WATER PARTITION COEFFICIENT : No data available  
OTHER DATA : No data available

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[10.REACTIVITY AND STABILITY]

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STABILITY : Stable in general  
HAZARDOUS REACTIONS : Stable.  
CONDITIONS TO AVOID : No information available  
MATERIALS TO AVOID : No information available  
HAZARDOUS DECOMPOSITION PRODUCTS : No information available  
OTHERS : No information available

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[11.TOXICOLOGICAL INFORMATION]

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ACUTE TOXICITY : No information available  
LOCAL EFFECTS  
CORROSIVITY : No information available  
SKIN IRRITATION : No information available  
EYE IRRITATION : No information available  
SENSITIZATION : No information available  
ICITY : No information available  
IARC : Group3,(2002 year edition)  
Titanium dioxide  
Group 3,(2002 year edition)  
Amorphous Silica  
NTP : Not established  
OSHA : Not established  
MUTAGENICITY : No information available  
TERATOGENICITY : No information available  
REPRODUCTION TOXICITY : No information available  
OTHER DATA : No information available

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[12.ECOLOGICAL INFORMATION]

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MOBILITY : No information available  
PERSISTENCE/ DEGRADABILITY : No information available

BIOACCUMULATION : No information available  
ECOTOXICITY  
AQUATIC TOXICITY : No information available  
OTHER DATA : No information available



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[13.DISPOSAL CONSIDERATIONS]

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Review "HANDLING AND STORAGE(Section7)"

Dispose of waste(after vacuuming) in accordance with local,state, and federal regulations.

Dispose of waste in accordance with local,state and federal regulations.

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[14.TRANSPORTATION INFORMATION]

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Follow all regulations in your country or region.

UN CLASS/UN NUMBER

: Not applicable

PRECAUTIONS

: Review "ACCIDENTAL RELEASE MEASURES (Section 6)".

Review "HANDLING AND STORAGE (Section 7)".

Ensure containers without breakage or leakage.

Ensure containers tightly fixed.

Follow all regulations in your country or region.

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[15.REGULATORY INFORMATION]

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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

ECL(Korea)

Yes

PICCS(Philippines)

Yes

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[16.OTHER INFORMATION]

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REFERENCES

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

-International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)

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