

# MATERIAL SAFETY DATA SHEET

## [1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : CLP-510D7K

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 OR PREPARATION : Preparation

INGREDIENTS AND CONCENTRATION RANGE

Ingredients Concentration Range(%) CAS RN

Black 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 MEASUARES]

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 3.5mg/m3,(2002 year edition)

Carbon black

TWA 3mg/m3(respirable particulate)

TWA 10mg/m3(inhalable particulate)(Particulates Not Otherwise Classified)

OSHA(PEL) : PEL 3.5mg/m3,(2002 year edition)

Carbon black

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 : Black 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 tetrahydrofurane.

OCTANOL/WATER PARTITION COEFFICIENT: No data available

OTHER DATA : No data available

# [10.REACTIVITY AND STABILITY]

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

## [11.TOXICOLOGICAL INFORMATION]

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 : Group2B,(2002 year edition)

Carbon black

Group3,(2002 year edition)

Titanium dioxide

Group 3,(2002 year edition)

Amorphous Silica : Not established

NTP : Not established OSHA : Not established

MUTAGENICITY : No information available TERATOGENICITY : No information available REPRODUCTION TOXICITY : No information available OTHER DATA : No information available

# [12.ECOLOGICAL INFORMATION]

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



BIOACCUMULATION

**ECOTOXICITY** 

AQUATIC TOXICITY
OTHER DATA

: No information available

: No information available: No information available

## [13.DISPOSAL CONSIDERATIONS]

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.

## [14.TRANSPORTATION INFORMATION]

Follow all regulations in your country or region.

UN CLASS/UN NUMBER

**PRECAUTIONS** 

**INVENTORIES** 

: Not applicable

: 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.

## [15.REGULATORY INFORMATION]

Follow all regulations in your country or region

, , ,

: ENCS(Japan) Yes TSCA(USA) Yes

EINECS(EÚ) No(ELINCS)

AICS(Australia)

DSL(Canada)

ECL(Korea)

NO(LEINCS
NO(LEINCS
NO(NDSL)
Yes

PICCS(Philippines) Yes

### [16.OTHER INFORMATION]

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)

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another ,in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist