

MATERIAL SAFETY DATA SHEET

[1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : CLP-500D5Y

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

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 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.



Feb 08, 2005 July 08, 2003



[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. : Avoid inhalation of fine dust .

PRECAUTIONS 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:

TWA 3mg/m3(respirable particulate) ACGIH(TLV)

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

: Not established OSHA(PEL)

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : Use dust mask, as appropriate to situation.

HAND PROTECTION Rubber gloves

: Safety glasses with side shield(Safety goggles or Face shield) **EYE PROTECTION**

: Full-body suit SKIN AND BODY PROTECTION

HYGIENE MEASURES : No information available

[9.PHYSICAL AND CHEMICAL PROPERTIES]

PHYSICAL STATES

FORM : Pulverizing powder

COLOUR : Red **ODOUR** : Odourless pΗ : 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 : 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 : No information available

ECOTOXICITY

AQUATIC TOXICITY : No information available OTHER DATA : 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 : 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.

[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 ECL(Korea) 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)

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