

Material Safety Data Sheet CLP-K300A, CLP-K350A, CLT-K409S,CLT-K4092S

Revised Date June 30, 2009 Set Up Date August 29, 2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS AND EFFECTS	
GHS CLASSIFICATION	
PHYSICAL AND CHEMICAL HAZARDS	: Not classified
HEALTH HAZARDS	
ACUTE TOXICITY (Oral)	: Not classified
ACUTE TOXICITY (Dermal)	
ACUTE TOXICITY (Inhalation)	: Not applicable(Vapours)
SKIN CORROSION / IRRITATION	: Not classified
SERIOUS EYE DAMAGE / EYE IRRITATION	: Not classified
RESPIRATORY SENSITIZATION	: Classification not possible
SKIN SENSITIZATION	: Not classified
GERM CELL MUTAGENICITY	: Classification not possible
CARCINOGENICITY	: Category 2
REPRODUCTIVE TOXICITY	: Classification not possible
SPECIFIC TARGET ORGAN SYSTEMIC TOXIC	ΤY
- SINGLE EXPOSURE	: Classification not possible
- REPEATED EXPOSURE	: Category 1(lung)
ASPIRATION HAZARD	: Classification not possible
ENVIRONMENTAL HAZARDS	
HAZARDOUS TO THE AQUATIC ENVIRONMENT	-
- ACUTE TOXICITY	: Classification not possible
- CHRONIC TOXICITY	: Classification not possible
GHS LABEL ELEMENTS	
PICTOGRAMS OR SYMBOLS	:

SIGNAL WORD HAZARD STATEMENTS

PRECAUTIONARY STATEMENTS PREVENTION

- ٨
- : Danger : Suspected of causing cancer Causes damage to organs thro

Causes damage to organs through prolonged or repeated exposure (lung)

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Material Safety Data Sheet		
	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 requ		
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 INGERDIENTS

SUBSTANCE OR MIXTURE : MixtureINGREDIENTS AND CONCENTRATION RANGEIngredientsConcentration Range(%)Polyester resin75 - 90Wax1 - 10Carbon black2 - 10Silica1 - 5

4. FIRST-AID MEASURES

IN CASE OF INHALATION IF exposed or concerned IN CASE OF SKIN CONTACT IF exposed or concerned IN CASE OF EYE CONTACT	 Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention/advice. Get medical attention/advice. Remove contact lenses. If present and easy to do. Continue rinsing.
IF exposed or concerned	: Get medical attention/advice.
IN CASE OF INGESTION	: Call a POISON CENTER or doctor/physician if you feel unwell.
IF exposed or concerned	: Get medical attention/advice.

CAS RN

Trade Secret

Trade Secret

Trade Secret

1333-86-4

5. FIRE-FIGHTING MEASUARES

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

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PREAUTIONS,	: Use mask, goggles and protective gloves.
PROTECTIVE EQUIPMENT AND	Large spills : Remove person to safety.
EMERGENCY PROCEDURE	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	: Prevent dispersion of dust.
	Sweep or vacuum by dust-explosion-proof type cleaner.
PREVENTION OF SECONDARY	: No information available
HAZARDS	

7. HANDLING AND STORAGE

HANDLING TECHNICAL MEASURES

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	: 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.
STORAGE	
SUITABLE STORAGE CONDITIONS	: Keep container tightly closed.
	Protect from sun. Store in a well-ventilated room(under 40 $$ $^\circ \! { m C}$)
	Store locked up.
SAFE PACKAGINH 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 local exhaust ventilation, in case of generation of dust.
LIMIT VALUES	
ACGIH(TLV)	: 3.5mg/m3 TWA
	Carbon black
	TWA 2mg/m3
	Paraffin wax fume
	10mg/m3 TWA (inhalable particles, recommended);3mg/m3 TWA (respirable particles, recommended)(Particulates (insoluble or poorly soluble) not otherwise specified (PNOS))
OSHA(PEL)	: 3.5mg/m3 TWA
	Carbon black
	15mg/m ³ TWA (total dust);5mg/m ³ TWA(respirable fraction)
	(Particulates not otherwise regulated)
PERSONAL PROTECTIVE EQUIPMENT RESPIRATORY PROTECTION	: Use dust mask, as appropriate to situation.
HAND PROTECTION	: Rubber gloves
EYE PROTECTION SKIN AND BODY PROTECTION HYGIENE MEASURES	: Safety glasses with side shield(Safety goggles or Face shield) : Full-body suit : No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATES FORM COLOUR	: Pulverizing powder : Black
ODOUR	: Odourless
	: No data available
SPECIFIC TEMPERATURES/TEMPERATU	
AT WHICH CHANGES IN PHYSICAL STA BOILING POINT	: No information available
MELTING POINT	: No information available
FLASH POINT	: No data available
FLAMMABILITY OR EXPLOSIVE PROPER	
	: UPPER LIMIT: No information available
I LAWIWADILITT ON EXI LOSIVE	LOWER LIMIT: No information available
LIMITS	
VAPOUR PRESSURE	: No information available
VAPOUR DENSITY	: No information available
SPECIFIC GRAVITY(DENSITY) : 1.2 g/mL	
SOLUBILITY	
WATER SOLUBILITY	: Insoluble
SOLVENT SOLUBILITY	: Partially soluble in toluene, chloroform and tetrahydrofurane.
PARTITION COEFFICIENT :n-	: No information available
OCTANOL/WATER (log Pow)	: No information available
AUTOIGNITION TEMPERATURE	: No information available
DECOMPOSITION TEMPERATURE	: No information available
ODOUR THRESHOLD	: No information available
EVAPORATION RATE	: No information available
FLAMMABILITY (SOLID, GAS)	: No information available
VISCOSITY	: No information available
OTHER DATA	: No information available

10. REACTIVITY AND STABILITY

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

11. TOXICOLOGICAL INFORMATION

: Rat, LD50 : > 5000mg/kg
: No information available
: No information available
: No information available

Material Safety Data Sheet

Material Salety Data Sheet	
INFORMATION ON INGREDIENTS	: No information available
SKIN CORROSION / IRRITATION	
INFORMATION ON PRODUCT	: Rabbit, undiluted, 4 hours semi-occluded application test
	(OECD404): Not classified
SERIOUS EYE DAMAGE/IRRITATION	
INFORMATION ON PRODUCT	: Rabbit, undiluted, OECD405 : Not classified
RESPIRATORY OR SKIN SENSITIZATION	N
RESPIRATORY	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available
	, Cuinas nia, Cuinas Dia Mavimizatian Tastu Nagativa
INFORMATION ON PRODUCT MUTAGENICITY (GERM CELL MUTAGEN	: Guinea pig, Guinea Pig Maximization Test : Negative
INFORMATION ON PRODUCT	: Ames test (TA98, TA100, TA1535, TA1537, TA1538, WP2uvrA) :
	Negative
INFORMATION ON INGREDIENTS	: No information available
CARCINOGENICITY	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: Carbon black : Category 2;Ref.(1)
IARC	: Group 3 : Not classifiable as to its carcinogenicity to humans
	Silica, amorphous
	Group 2B : Possibly carcinogenic to humans.
	Carbon black
	Group 2B : Possibly carcinogenic to humans.
	Titanium dioxide
NTP	: Not listed
EU	: Not listed
OSHA	: Not listed
REPRODUCTION TOXICITY	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available
SPECIFIC TARGET ORGAN SYSTEMIC - - 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)
ASPIRATION HAZARD	
INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available
OTHER INFORMATION	: No information available

12. ECOLOGICAL INFORMATION

ECOTOXICITY PERSISTENCE / DEGRADABILITY MOBILITY IN SOIL BIOACCUMULATION POTENTIAL OTHER ADVERSE EFFECTS No information available

13. DISPOSAL CONSIDERATIONS

Review "HANDING 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

Follow all regulations in your country or region. INTERNATIONAL REGULATIONS UN CLASS / UN NUMBER : Not applicable SPECIAL PRECAUTIONS FOR USER : 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. Avoid heating(keep under 40 C).

15. REGULATORY INFORMATION

Follow all regulations in your cou	untry 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

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

-International Chemical Safety Cards(ICSC) (Compiler's Guide) (1994) (1) GHS Classification Database, National Institute of Technology and Evaluation (NITE)

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 manufacture cannot and does not guarantee that the hazards described herein are the only ones that exist.

Printing solutions as easy as

