



MATERIAL SAFETY DATA SHEET

[1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : CLP-Y300A, CLP-Y350A, CLT-Y409S
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 : Yellow Toner

INGREDIENTS AND CONCENTRATION RANGE

Ingredients	Concentration Range(%)	CAS RN
Polyester resin	75 - 90	Trade Secret
Wax	1 - 10	Trade Secret
Yellow pigment	0.5 - 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 : Yellow 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.(Carbon)
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, WP2urvA) : 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 (ELINCS)
TSCA : Yes

Follow all regulations in your country or region.

[16.OTHER INFORMATION]

REFERENCES : None

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