

Material Safety Data Sheet MLT-D105S, MLT-D105L, MLT-D1052S, MLT-1052L, MLT-D1053S, MLT-D1053L

Revised Date: August 17, 2009 Set Up Date: May 11. 2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TUFTONE YS-4-2 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 INGERDIDENTS]

SUBSTANCE / MIXTURE : Mixture CHEMICAL NAME : Black Toner

(GENERIC NAME)

CHEMICAL FORMULA : Not specified CAS RN : Confidential UN No. : Not applicable **EINECS** : No(ELINCS)

TSCA : Yes

OTHER INFORMATION : Contains: Silica dioxide about 2%.

Carbon Black about 4%

3. HAZARDS IDENTIFICATION

FIRE AND EXPLOSION HAZARD : May cause risk of dust explosion.

POTENTIAL HEALTH FEFECTS : 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 MEASUARES

: Risk of producing harmful gases such as carbon monoxide and **EXTINGUISHING MEASURES**

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.

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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 : Black powder
ODOUR : Odourless
BOILING POINT : No data available

VAPOUR PRESSURE

VAPOUR DENSITY

VOLATILITY

MELTING / FREEZING POINT

SPECIFIC GRAVITY

: No data available
: No data available
: No data available
: No data available
: 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 : No data available

OR DECOMPOSITION PRODUCTS

OTHER INFORMATION : None

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11. TOXICOLOGICAL INFORMATION

CORROSIVITY : No data available SKIN IRRITATION : No data available : No data available EYE IRRITATION SENSITIZATION : No data available : No data available **ACUTE TOXICITY** SUBCHRONIC EFFECTS : No data available CHRONIC EFFECTS : No data availabl : No data available CARCINOGENICITY

I ARC : 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 : No data available 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 "HANDLING AND STORAGE(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

Follow all regulations in your country or region.

PRECAUTIONS : 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 LABELS : Not applicable

15. REGULATORY INFORMATION

Follow all regulations in your country or region.

EINECS: No (ELINCS)

TSCA: Yes

KAO Corporation is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

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16. OTHER INFORMATION

REFERENCES : None

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.

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