

Material Safety Data Sheets (MSDS)

1 Information of Chemical Products and Company

- A. Item : ESD CONTROL TABLE & FLOOR RUBBER MAT
- B. Feature : ESD Mat which is made of two layer (Static-Dissipate & Conductive) will protect the hazard of static electricity having origin in maintenance electric potential difference at 0 volt between one's body and a mat as well as device sensitive to static electricity.
- C. Hazards identification : not applicable.
- D. Application : 1)The place of production made of a semiconductor(VLSI,C-MOS,and so on)
 2)A manufacturing plant made of computers, electric appliances and equipment
 3)A place used of an electronic exchanger
 4)A machinery room equipped with office automation
 5)A chemical laboratory
- E. Prepared by : Q.A team
- F. Date of issue : 3th of JAN., 2011
- G. Time of modification and date of modifying : 0

2 Composition and name on ingredients

A. Chemical name : polymer, carbon, additive materials : 97%

B. Name		polymer	carbon	additive materials	etc
C. Proportion(%)		55%	35%	7%	3%

3 Hazards

- A. Eye contact : a)short term : soft stimulation, b)long term : not information
- B. Skin contact : a)short term : not applicable, b)long term : not applicable
- C. Inhalation : a)short term : not applicable, b)long term : not applicable
- D. Ingestion : a)short term : not applicable, b)long term : not applicable
- E. Chronic symptom and condition : a)short term : not applicable, b)long term : not applicable

4 First aid measure

- A. Eye contact : Pls wash one's eye with water or a solution of salt
- B. Skin contact : not applicable
- C. Inhalation : not applicable
- D. Ingestion : not applicable
- E. Medical information : not applicable

5 Fire-fighting measure

- A. Flashing point : 386F(196C) (CC)
- B. Natural ignition point : 743F(396C)
- C. Limit of flashing point : no information
- D. Dividing and regulation contents of fire fighting measure : not applicable
- E. Extinguishing agents : patical of powder, fire fighting materials, carbondioxide, general foam
- F. Extinguishing measure and instrument : Pls use extinguishing agents
- G. Toxic substance of burning : 2.6-DI-TERT-BUTYL-P-CRESOL, SREARIC ACID
- H. Prohibited extinguishing agents : no information

- I. General hazard : Solid material may burn at or above the flashpoint and airborne dust may explode if ignited Toxic gases will form upon combustion. Static Discharge material can accumulate static charge which can cause an incendiary electrical discharge
- J. Fire fighting : Use water spray to cool surface which is exposed at fire, protect personnel, and extinguish fire
- K. Decomposition substance of burning : Oxygen-lean condition may produce carbon monoxide and irritating smoke

6 Accidental release measure

- A. Necessary measure for protecting one's body : not applicable
- B. Necessary measure for protecting environment : Pls use every regulation available
- C. Method of purifying or removing : not applicable

7 Handling and storage

- A. Safety handling method : Pls treat ESD Mat in where there is no igniting agent
- B. Storage method : Pls storage seperating from water, strong oxidizing, chemical agents

8 Physical & chemical properties

- A. Mat thickness : 2mm
- B. Haze : no information
- C. Strength of elongation : TS-0.5kg/mm²
- D. Elongation rate : over 200%
- E. Blocking : no information

9 Stability & Reactivity

- A. Chemical stability : stable at the high temperature and pressure
- B. Prohibited conditions and material : heat, a flame, a spark, other lighter, prohibited mixing materials
- C. Hazardous material in dissolving : CO, CO₂, PHENOL, HYDROCARBON GAS
- D. Possibility of hazards on reacting : stable at the high temperature and pressure

10 Toxicological information

- A. Acute toxic on mouth : no information
- B. Acute inhalation toxic : no information
- C. Chronic toxication : no information
- D. Effect on next generation : no information
- E. Cancer effect : no information
- F. Others : no information

11 Effect on environment

- A. Water life and ecological toxic : no information
- B. Earth fluctuation : no information
- C. Remaining and solubility : no information

D. Possibility of accumulating inside body of animals and vegetation : no information

12 Disposal consideration

- A. Regulation status on disposal law : disposal management law(Act 25)
- B. Disposal method : according to relative law
- C. Cautions : according to relative law

13 Transport information

- A. Vessel safety law regarding dangerous material : no information
- B. Caution of transporting : no information
- C. Regulation of other foreign transportation law : no information

14 Law and regulation status

- A. Regulation by industrial safety health law : not available
- B. Regulation of other department (chemical management law of hazard chemical material) : no information
- C. Other regulation of foreign country : no information