Material Safety Data Sheet

Product Name: DS-553A / DS-551A / DS-601A

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
   Company: CHIMEI CORPORATION
   Address: 59-1, San Chia, Jen Te, Tainan City, Taiwan, ROC.
   Information Phone No.: 886-6-2663000 Ext.2501
   Emergency Phone No.: 886-6-2663000 Ext.2501
   Fax No.: 886-6-2665555

2. COMPOSITION / INFORMATION ON INGREDIENTS
   Chemical Name: Polystyrene
   Content: > 95 % (Additives < 5 %)
   Formula: (C₈H₈)m
   CAS No.: 9003-53-6

3. HAZARDS IDENTIFICATION
   Most Important Hazards: None
   Adverse Human Health Effects: None
   Environmental Effects: None
   Physical and Chemical Hazards: None

4. FIRST AID MEASURES
   Inhalation: In case of gases evolving from molten resin, move subject to fresh air.
      Treat symptomatically.
   Skin Contact: In case of pellets or powder, wash with water.
      In case of melt, wash affected skin area and clothing with plenty of (soap
      and) water, seek medical advice.
   Eye Contact: In case of pellets or powder, flush with plenty of water for at least 20
      minutes. Seek medical advice if any dust particles still remain.
      In case of gases evolving from melted resin of high temperature, flush with
      plenty of water for at least 20 minutes. Seek medical advice if necessary.
   Ingestion: Induce vomiting. Rinse mouth with water. Seek medical advice if
      necessary.

5. FIRE-FIGHTING MEASURES
   Extinguishing Media: Water, Foam, Dry chemical powder
   Special Fire-Fighting Procedure: Self contained breathing apparatus
   Fire and Explosion Hazards: None

6. ACCIDENTAL RELEASE MEASURES
   Methods for Cleaning up: Recovery if not contaminated or disposal
   Personal Precautions: Pellets or powder remained on ground may cause
      slipping
   Environmental Precautions: Gather pellets and powder thoroughly to avoid birds or
      fishes taking from draining water.

7. HANDLING AND STORAGE
   Handling: Prevent from fire around handling area. Maintain good housekeeping
      standards to prevent accumulation of dust. To avoid dust explosion
      resulting from the existence of powder, electrostatics eliminators and
      grounding should be fixed to such equipments as air transferring pipes, bag
      filters and hoppers. Use electrically conductive filters for bag filters.
   Storage: Keep the material at a cool dry place. Protect from direct sunlight, rain and
violent temperature fluctuation. Fire is inhibited around storage area.

8. **EXPOSURE CONTROLS / PERSONAL PROTECTION**
   - **Threshold Limit Value**: Not determined
   - **Ventilation**: Necessary to exclude dust, fumes and gases.
   - **Eye Protection**: Wear safety glasses for general purpose. Wear chemical goggles for cleaning molding machine.
   - **Respiratory Protection**: Wear masks for cleaning molding machine.
   - **Gloves**: Necessary for handling molten resin.

9. **PHYSICAL AND CHEMICAL PROPERTIES**
   - **Appearance**: White sheet
   - **Odor**: None
   - **Melting Temperature**: Softening above 95°C
   - **Solubility**: Insoluble in water
   - **Specific Gravity**: 1.03~1.06
   - **Flammability**: Yes
   - **Flash Point**: Not applicable
   - **Autoignition Temperature**: 490°C (estimated)

10. **STABILITY AND REACTIVITY**
    - **Reactivity with Water**: No
    - **Stability**: Stable and non-reactive under normal handling and storage conditions.
    - **Thermal Decomposition Gases**: Hazardous combustion products may include dense black smoke, CO₂, CO, and hydrocarbon fragments. Fumes evolved during processing may include trace levels of aliphatic and aromatic hydrocarbons, acids, phenol, and phenol derivatives.

11. **TOXICOLOGICAL INFORMATION**
    - **Irritation**: Fumes or vapors generated from decomposing resin may be irritant to eyes.
    - **Acute oral toxicity (LD50)**: Not determined
    - **Mutagenicity**: Not determined

12. **ECOLOGICAL INFORMATION**
    To avoid being taken by ocean species or birds, disposal of the waste to the ocean and water sources is inhibited.

13. **DISPOSAL CONSIDERATIONS**
    Controlled incineration or landfill according to local, state or national laws and regulations concerning health and pollution. Inadequate incineration may generate toxic gases such as CO₂, CO and hydrocarbon fragments.

14. **TRANSPORT INFORMATION**
    Not regulated

15. **REGULATORY INFORMATION**
    This product confirms with the Chemical Substance Inventory requirements of the US EPA Toxic Substances Control Act (TSCA).

16. **OTHER**
    The data given above is believed accurate and for reference only.