



## Material Safety Data Sheet ( MSDS )

### 1. Manufacturer

- ① Company : Yan Tai E.S.T silicone technology Co.Ltd
- ② Address : No.89, Huanhai-road,Yantai City, Shandongsheng,china
- ③ In case of Emergency : ☎ 86 - 535 - 680 - 0066
- ④ Contact : Quality Assurance Dept.

### 2. Information on Ingredients

- ① Product Name : TSL-501
- ② Product Type : Silicone ink
- ③ Single or Compound : Compound
- ④ Application : Printing ink
- ⑤ Chemical nature:  
Vinyl-fuctional polydimethysiloxane with cross linker and Filler.

### 3. Hazardous Identification

Non-hazardous Material

### 4. First Aid Measures

- ① Eye Contacts: Immediately flush with water, continuing for at least 15 minutes, get medical attentions.
- ② Skin Contacts: Remove contaminated clothing, wash skin with plenty of cold to lukewarm water and soap.
- ③ Inhalation : Remove to fresh air, consult a physician
- ④ Ingestion: Induce vomiting by touching finger to back of throat, get medical attentions.
- ⑤ Advice to Physician : No additional instructions.

### 5. Fire Fighting Measures

- ① Flash Point : > 480℃
- ② Auto-ignition Temperature : None Known
- ③ The Fire Services Act Class & Restriction : None Known
- ④ Extinguishing Media: Use Carbon Dioxide, dry chemical or alcohol foam(polar solvent foam). Self-contained Breathing apparatus and protective clothing should be worn in fighting fire involving chemicals



## 6. Accidental Release Measures

- ① Precautionary Measure : Wear protective equipment. Keep unprotected persons away. Evacuate the area of all nonessential personnel. Avoid contact with skin and eyes. Ensure adequate ventilation.
- ② Environmental Protection Measure : Collect for disposal. Avoid discharge to natural waters, sewers and biological Waste water treatment plants.
- ③ Cleaning Measure : Cover with inert absorbent material and collect for disposal. Contain large spills and pump into a suitable tank.

## 7. Handling and Storage

- ① Handling : Avoid breathing vapor. Avoid contact with water or excess humidity. Usual precautions as with any Chemical. Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away.
- ② Storage : Avoid storage together with acids. Keep away from direct sunlight and other sources of heat or ignition. Store in cool, dry conditions in well sealed container. Used containers must be sealed tightly.

## 8. Exposure Controls and Personnel Protection

- ① Exposure Controls : NA
- ② Density Allowance : NA
- ③ Equipment : Mechanical ventilation is preferred. Use of local exhaust and /or a fume hood is recommended.
- ④ Respiratory Protection : Wear protective equipment (Breathing Apparatus)
- ⑤ Eye Protection : Chemical workers goggles recommended
- ⑥ Protective Gloves : Recommended materials of construction for gloves include butyl rubber, neoprene or nitrile.
- ⑦ Protective Clothing : Clean, body-covering clothing. In addition, boots and apron, depending upon the exposure Likely, or as required by your company.

## 9. Physical and Chemical Properties

- ① Appearance : Translucent
- ② Boil Point : Not determined
- ③ Melting Point : Not determined
- ④ Vapor Pressure : Not determined
- ⑤ Solubility in Water : Not determined
- ⑥ pH : Not determined
- ⑦ Specific Gravity : 1 ~ 1.07
- ⑧ Partition Coefficient : Not determined

## 10. Stability and Reactivity

- ① Stability : Stable under normal conditions
- ② Oxidization : None
- ③ Dust Explosiveness: Not Applicable
- ④ Material to Avoid : Strong acid contact. Heat treatment , especially in the presence of iron . heat, flames, sparks
- ⑤ Hazardous Decomposition Products : CO, CO<sub>2</sub> ,SiO<sub>2</sub>
- ⑥ Hazardous Polymerization : Not Applicable under normal conditions



## 11. Toxicological Information

- ① Skin : Not Applicable(N/A)
- ② Acute Oral : N/A
- ③ Acute Inhalation : N/A
- ④ Sub-acute : N/A
- ⑤ Chronic : N/A
- ⑥ Carcinogenic : N/A
- ⑦ Variation : N/A
- ⑧ Next-generation Effect : N/A
- ⑨ Generative : N/A

## 12. Ecological Information

- ① Decomposition : N/A
- ② Bio-accumulative Potential : N/A
- ③ Mobility : N/A
- ④ Ecotoxicity : N/A

## 13. Disposal Considerations

- ① Disposal Act & Regulation : Designated waste
- ② Disposal Method : Collect for disposal. Dispose of as other combustible liquids. Incineration recommended
- ③ Classification : Incinerate according to appropriate regulations

## 14. Transport Information

- ① The Ships Safety Act – Dangerous Article & Storage : None
- ② Transport Notice : None
- ③ ICAO / IATA : None
- ④ Additional Advice : None

## 15. Regulatory Information

- ① Industrial Safety Act Article 41 (Material Safety Data Sheet kept on file)
- ② Toxic Chemical Control Law : NA
- ③ Additional Notice : NA

## 16. additional Advice

The information & Data contained in this “MSDS” are based on our present state of scientific and technical knowledge. Refer to Korea Industrial Safety Corporation’s guideline. We do not guarantee the properties of the described products in terms of legal warranty regulations. The physical data presented herein does not purport to be the specifications.