



## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING

<b><u>Product Name</u></b>	Thermoplastic Polyurethane Resin
<b><u>Product IDN/ Trade Name</u></b>	TPU-P-6
<b><u>Material Uses</u></b>	DTF Adhesive
<b><u>Manufacturer</u></b>	STS Inks LLC., 8300 Congress Ave., Boca Raton, FL 33487, USA Phone: 561-999-8818 Fax: 561-999-8828 Emergency: 561-419-7111 <a href="http://www.stsinks.com">www.stsinks.com</a>
<b><u>Date Issued</u></b>	March 22, 2023

### 2. HAZARD IDENTIFICATION

#### 2.1 General Chemical Description

White powder with thermoplasticity that can be heated/ plasticized and bonded.

#### 2.2 Health Effects

Non-hazardous at room temperature, non-hazardous to health.

#### 2.3 Environmental Impact

No effect

#### 2.4 Physical and Chemical Hazards

Becomes molten at high temperatures and can burn skin.

#### 2.5 Special Hazards

None

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

#### 3.1 General Chemical Description

White powder, with thermoplasticity, can be repeatedly heated and plasticized and bonded.

Components	CAS-Number
Polyurethane	9009-54-5

## 4. FIRST AID MEASURES

### 4.1 Description of necessary first-aid measures

<b>Inhalation</b>	If inhaled move to fresh air. Respiratory irritation may occur, if symptoms develop seek medical attention. If not breathing, give artificial respiration preferably mouth to mouth.
<b>Ingestion</b>	Discharged immediately induce vomiting and immediately seek medical attention. Never give anything by mouth to an unconscious person.
<b>Skin Contact</b>	No harm at room temperature, if discomfort, wash with soap or water. If the molten state at a high temperature and exposure to the substance is used to cool the ice or flowing water, and timely medical treatment
<b>Eye Contact</b>	Do not rub eyes. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.

### 4.2 Most important symptoms or effects, and any symptoms that are acute or delayed

**Eye Contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin Contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### Over Exposure Signs/Symptoms

**Eye Contact:** No specific data.

**Inhalation:** No specific data.

**Skin Contact:** No specific data.

**Ingestion:** No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media

Suitable Extinguishing Media: Small fires: dry powder fire extinguishers, carbon dioxide fire extinguishers, foam fire extinguishers.

Big fires: spray, fog or regular foam fire extinguishers.

Unsuitable Extinguishing Media: Do not use direct current fire extinguishers.

### **5.2 Special Hazards arising from the substance or mixture**

Decomposition Non-toxic fumes under fire conditions (Due to different personal physical condition, may produce discomfort)

### **5.3 Advice for Fire-Fighters**

Firefighters should wear positive pressure self-contained breathing apparatus; it should be equipped with protective clothing.

## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

No harm at normal temperature, high temperature molten beware of burns.

### **6.2 Environmental Precautions**

Prevent the inflow pipes or ditches.

### **6.3 Methods and materials for containment and cleaning up**

After heating alcohol scrub.

### **6.4 Reference to other sections**

For disposal see section 13.

## **7. HANDLING AND STORAGE**

### **7.1 Handling**

Require the installation of local ventilation equipment. As the case may be, to wear protective masks, eye, gloves.

### **7.2 Conditions for safe storage**

1. temperature 20-30 °C, humidity 45-55%, non-UV light exposure, dark (blackout include: lighting, natural light), avoid prolonged air contacts.
2. The stacking strength of materials should not be too large, and the stacking height should be moderate.
3. Keep the original packaging; if there is no good packaging, the excess materials should be consumed within one day as much as possible.

### **7.3 Specific end uses**

Direct to Film application.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters:**

Components with workplace control parameters

Not specified.

## 8.2 Exposure controls:

### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **Personal Protective Equipment**

#### **Respiratory Protection**

Not applicable

#### **Hand Protection**

Heating process using gloves for protection.

#### **Skin Protection**

Not applicable.

#### **Eye/face Protection**

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Color</b>	White
<b>Odor</b>	Slight
<b>Boiling Point/boiling range</b>	No Data Available
<b>Melting Point/melting range</b>	80-95 °C
<b>Freezing Point</b>	Not applicable
<b>Specific Gravity</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Vapor Pressure</b>	Undetermined
<b>Relative Density</b>	1.20±0.02 g/cm <sup>3</sup>
<b>Water Solubility</b>	Insoluble
<b>Viscosity</b>	Not applicable
<b>pH</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Auto-Ignition Temperature</b>	Not applicable
<b>Flammable Limits</b>	It will not cause a fire
<b>Volatility (w/w)</b>	No Data Available
<b>VOCs</b>	No Data Available
<b>Oxidizing Properties</b>	No Data Available

The physical and chemical data given in Section 9 are typical values for this product and are not intended to be product specifications.

## **10. STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	No data available
<b>10.2 Chemical Stability</b>	This product is stable under recommended conditions of storage and use.
<b>10.3 Possibility of hazardous reactions</b>	No data available
<b>10.4 Conditions to avoid</b>	Do not put wet or in direct sunlight.
<b>10.5 Materials to avoid</b>	Sunlight, Water, Fire
<b>10.6 Hazardous decomposition products</b>	None

## **11. TOXICOLOGICAL INFORMATION**

<b>11.1 Routes of Overexposure</b>	None
<b>11.2 Health Hazards:</b>	
<b>Acute Health Hazards</b>	None
<b>Chronic Health Hazards</b>	None
<b>Mutagenicity</b>	Not a suspected mutagen.
<b>Carcinogenicity</b>	None
<b>11.3 Toxicity:</b>	
<b>Acute Toxicity Data</b>	None
<b>Inhalation</b>	None
<b>Irritating</b>	None
<b>Sensitization</b>	None
<b>Reproductive Toxicity</b>	None

## **12. ECOLOGICAL INFORMATION**

<b>12.1 Ecotoxicity</b>	This product does not harm the environment.
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<b>12.2 Fluidity</b>	25±8 g/10min (ASTM D1238-04)
<b>12.3 Persistence and Degradability</b>	None
<b>12.4 Bioaccumulative Potential</b>	None
<b>12.5 Results of PBT and vPvB Assessment</b>	PBT: Not applicable vPvB: Not applicable
<b>12.6 Other Adverse Effects</b>	No data available

## **13. DISPOSAL CONSIDERATIONS**

### **13.1 Waste Treatment Methods**

**Product** It can be regarded as non-toxic plastic waste, can be recycled or discarded according to local government laws.

**Contaminated Packaging** Dispose of as unused product

## **14. TRANSPORTATION INFORMATION**

Not classified as a dangerous good under transport regulations

<b>14.1 UN Number</b>	Not Regulated
<b>14.2 UN Proper Shipping Name</b>	Not Regulated
<b>14.3 Transport Hazard Class(es)</b>	Not Regulated
<b>14.4 Packaging Group</b>	Not Regulated
<b>14.5 Environmental Hazards</b>	Not Regulated
<b>14.6 Special Precautions for User</b>	Transport and storage of the product in accordance with general precautions and instructions mentioned in this SDS.

## **15. REGULATORY INFORMATION**

**U.S Federal Regulations OSHA** : Not available.  
: This product is classified non-hazardous

**Applicable Regulations** : No reference material

## **16. OTHER INFORMATION**

The information in this Safety Data Sheet (SDS) is believed to be correct to the best of our knowledge, information and belief at the date of its publication. The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained. STS inks does not warrant the completeness or accuracy of the information contained herein.

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