



# Chan Sieh Enterprises Co., Ltd.

Revision Date : Feb. 07, 2020

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPERATION AND THE COMPANY

**Product Name:** AR-541

**Chemical Name:** Solid Acrylic Polymer Resin for industrial use.

**Suggested usage and limitation:** for industrial use, inks, paints and coatings

**Company Information:** Chan Sieh Enterprises Co., Ltd.      **Emergency:** +886-2-2581-6516  
3F, No.90, Nanking E. Rd., Sec.2      Tel: +886-2-2581-6516  
Taipei, TAIWAN 104      Fax: +886-2-2531-7923  
R. O. C.      Email: chansieh@ms17.hinet.net

### 2. HAZARDS IDENTIFICATION

**Hazard classification:**

**Labeling:**

**Hazard pictograms:**

**Signal word:**

**Hazard Statements:** May cause eye irritation.

May be harmful if by inhalation, skin absorbing or ingestion.

**Precautionary statements:** Handle with gloves if necessary.

Prevent flow into water of drainer and river.

**Other hazards:**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture:**

**Chemical Characterization:** Acrylic Polymer Resin CAS: 25133-97-5

Hazard ingredients	Concentration (percentage)	Hazard pictograms
Acrylic Resin	99%	
Water	1%	

### 4. FIRST AID MEASURES

**Inhalation**      Remove the patient to a place with fresh air. Obtain medical attention if ill effects occur.

**Skin Contact:** Wash with water.  
**Eye Contact:** Immediately flush with plenty of water for 15 minutes, and obtain medical attention if still irritating.  
**Ingestion** Wash out mouth with water. Obtain medical attention if ill effects occur.  
**The Most important Symptoms and hazardous effects:** May cause skin reddish and dizziness  
**Personal protection for the first aid person:** Current unknown.  
**Indication for physician:** Symptomatic treatment and supportive therapy as indicated.

**5. FIRE-FIGHTING MEASURES**

**Not classed as flammable. If involved in a fire, it may emit noxious and toxic fumes.**  
**Extinguish media:** Foam, CO2, dry powder, water spray.  
**Special hazards may occur during fire-fighting:** This material will support combustion, if ignited. Like all thermoplastic materials, it will melt under fire conditions.  
**Special fire-fighting procedure:**  
**Protection for fire fighter:** Protective clothes and gloves

**6. ACCIDENTAL RELEASE MEASUREMENT**

**Personal precautions** Spilled particles present a severe slip hazard. Avoid contact with skin and eyes. Do not breathe dust.  
**Environmental precaution:** Do not release to the environment.  
**Methods for cleaning up :** Sweep up and shovel into waste container.

**7. HANDLING AND STORAGE**

**Handling precautions** Avoid contact with eyes. Do not breathe dust.  
**Storage conditions** Store in a cool dry place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Construction control:** Close room should have ventilation system.  
**Control factors: TWA: -**  
**STEL: -**  
**Ceiling: -**  
**LC<sub>50</sub>: -**  
**LD<sub>50</sub>: -**

**Personal protection equipment**  
**Respirators protection** yes, in airborne dusts.  
**Hands protection** -  
**Eyes protection** goggles (in dust).  
**Skin and body protection** remove particles from skin to avoid plasticization by skin oil.  
**Hygiene practices:** Obey the operation rule and prevent unnecessary contact, be careful during

handling, and wash hands after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Type</b>	nBMA/MMA copolymer
<b>Appearance</b>	White transparent; free flowing bead
<b>Odor</b>	Slight
<b>Specific gravity (water=1)</b>	1.0 – 1.1 (20°C)
<b>Total solids (%w/w)</b>	min. 98 %
<b>Average mol. Weight (Mw)</b>	210,000
<b>Acid value (mg KOH/g)</b>	<6
<b>Tg (DSC: °C)</b>	55
<b>Softening point (Ring&amp;Ball)</b>	18 °C
<b>Viscosity Brookfield (25°C)</b>	2,500 – 3,500 (40% w/w in Toluene)
<b>Density (20 °C; kg/l)</b>	1.16
<b>Solubility in water (% by wt.)</b>	Insoluble. Soluble in aromatics, higher alcohols, esters and ketones
<b>Vapor pressure (at 20°C)</b>	not available
<b>Flashing point</b>	none
<b>Explosion Limited</b>	<b>UEL: -</b> <b>LEL: -</b>

**Partition coefficient (n-octanol/water, log Kow) : -**

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable
<b>Possible hazards under special condition</b>	None
<b>Conditions to avoid</b>	None
<b>Material to avoid</b>	None
<b>Hazardous decomposition products</b>	None known

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity:

Inhalation: Dust may be irritated to the upper respiratory tract.

Skin: Unlikely to cause skin irritation

Eyes: May cause eye irritation

Ingestion: Unlikely to be hazardous if swallowed

### Regional effects:

### Sensitization:

### Chronic toxicity or long-term toxicity:

**Special effects:** - -

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** LC50 -

EC50 -

BCF -

**Persistence and degradability:** -

**Bioaccumulative potential:** -

**Mobility in soil:** Most of parts will be mixed with the soil when released into soil.

**Other adverse effects:** This product is not hazardous waste. Not hazardous to water.

## 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local and state regulations. This product is not a hazardous waste.

## 14. TRANSPORT INFORMATION

**UN number:**

**UN Proper shipping name:**

**Transport hazard class(es):**

**Packing group:**

**Marine pollutant (yes/no):** no

**Specific transport measures and precautionary conditions:**

## 15. REGULATORY INFORMATION

**Not Classified as Hazardous to Users.**

## 16. OTHER INFORMATION

This information is made by our Tainan Plant.

---

*The information contained in this safety data sheet is the result of the most up-to-date available in our company. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation. The user must ensure that the information is suitable and complete in relation to the specific use of the product*

---