

377 Moo 17 Bangna-Trad Rd., Bangsaotong, Bangsaotong, Samutprakarn 10540, TEL 66-2-315-3204 $\sim$ 7, FAX 66-2-315-3683, <a href="https://www.hanwhath.com">www.hanwhath.com</a>

### SAFETY DATA SHEET

HCT Safety Data Sheet according to Globally Harmonized System of Classification and Labeling of Chemicals (GHS), fifth revised edition of the GHS, published in 2013.

Date/Revised: 06. 10. 2015 Version: 2.1

Products: Soluryl 124

1. Chemical Product and Company Identification		
Product Name	Soluryl 124	
Product Family	Styrene-Acrylic acid Copolymer	
Recommended Use	Pigment grinding vehicle for water base ink	
Supplier	Hanwha chemical Thailand Co., Ltd 377 Moo 17 Bangna-Trad Rd., Bangsaotong, Bangsaotong, Samutprakarn, 10540, TEL 66-2-315-3204~7 Seock Yong Shin, <a href="mailto:shin@hanwhath.com">shin@hanwhath.com</a>	
Emergency Information	Joon Woo Ahn <a href="mailto:ahnjoonwoo@hanwhath.com">ahnjoonwoo@hanwhath.com</a> , TEL 66-2-705-9681~4 (EXT. 103)	

#### 2. Hazards Identification

Hazard Classification: No need for classification in accordance with GHS

The products does not require a hazard warning label in accordance with GHS

3. Composition, Information on Ingredients		
Component	CAS#	wt%
Styrene-a-methyl styrene-Acrylic acid copolymer	52831-04-6	>99.0

4. First Aid Measur	res
Eye	Immediately flush eyes with plenty of water for at least 15 minutes.  Get medical attention if irritation develops or persists.



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Skin	Immediately wash skin with plenty of soap and water for at least 15 minutes.  Get medical attention if irritation develops or persists.  Wash contaminated clothing and shoes before reuse.	
Ingestion	Give 1~2 glasses of water to drink and get medical attention.	
Inhalation	Remove to fresh air. Get medical attention If a cough or other respiratory irritation develop or persists.	
Notes to Physician	Not necessary	

5. Fire Fighting Measures	
Extinguishing Media	Dry powder, Carbon dioxide, Water spray
Unsuitable Extinguishing Media	High pressure water jet
Decomposition Hazardous Gases	Could be formed corrosive and irritant gases
Fire Fighting Instruction	Respirator, Wear self-contained breathing apparatus

6. Accidental Release Measures	
Personal Precautions	Wear eye, skin and respiratory protection during cleaning
<b>Environmental Precautions</b>	Not necessary
Methods for Clearing	Vacuum into a closed container or Sweep up mechanically

7. Handling a	7. Handling and Storage		
Handling	Handling may result in dust or powder from this product. When mixed with in critical proportions and in the presence of an ignition source, the drawn presents an explosion hazard. Use in a well ventilated area and handle methods that minimize dust production. Avoid contact with eyes, skin a cloth		
Storage	Keep containers closed and upright to prevent leakage. Store in a cool, well ventilated area away from heat, sources of ignition, direct sunlight. Keep from Children		

8. Exposure Controls & Personal Protection		
Exposure Limit	Polymer/Solid, Not applicable	



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Engineering Controls	Provide general clean air dilution or local exhaust ventilation in volume and pattern to prevent air contaminant concentration build-up	
Protection	Eye: Wear safety glasses Skin: Wear appropriate protective gloves Respiratory: Avoid breathing dust. If exposed to dust, wear an appropriate, properly fitted respirator	

9. Physical & Chemical Properties		
Physical state	Solid Bead	
Color	Transparent, Clear	
Odor	Faint	
рН	Not applicable	
Melting Point(℃)	Not applicable	
Boiling Point(℃)	Not applicable	
Flash Point(°C)	Not applicable	
Evaporation Rate	Not applicable	
Flammability	Not applicable	
Explosive Limit	Not applicable	
Vapor Pressure	Not applicable	
Vapor Density	Not applicable	
Relative Density(g/cc)	1.10 ~ 1.13	
Bulk Density(g/cc)	$0.6 \sim 0.7$	
Solubility	Alkaline water soluble, Alcohol soluble, THF soluble	
Partition Coefficient	Not applicable	
Auto-ignition temp( $^{\circ}$ C)	Not applicable	
$\overline{\text{Decomposition Temp}(^{\circ}\mathbb{C})}$	Not applicable	
Viscosity(cps)	Not applicable	
Molecular weight	12,000~13,600	

10. Stability & Reactivity	
Chemical Stability	Stable
Possibility of Hazardous Reaction	None under normal conditions
Conditions to avoid	Elevated temperature



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Materials to avoid	Strong oxidizing materials
Hazardous decomposition products	Carbon dioxides, Incomplete combustion can produce carbon monoxide.

11. Toxicological Information	
Information on the likely routes of exposure	No data available
Symptoms related to the physical, chemical and toxicological characteristics	No data available
Delayed and immediate effects and also chronic effects from short- and long-term exposure	No data available
Numerical measures of toxicity	No data available

12. Ecological Information	
Ecotoxicity (aquatic and terrestrial, where available)	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	No data available

### 13. Disposal Information

Dispose of in accordance with local, state or national regulations.

Do not incinerate closed containers.

Incinerate in approved facility.

14. Transport Information	
UN number	Not Classified
UN Proper shipping name	Not applicable
Transport Hazard class	Not Classified as a dangerous good
Packing group, if applicable	Not applicable
Marine pollutant	Not Classified as a dangerous good



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Special precautions which a user needs to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises

Not applicable

#### 15. Regulatory Information

Country and Inventory Status:

TCSA Listed of USA: Yes

EINECS Listed of Europe: Yes AICS Listed of Australia: Yes ENCS Listed of Japan: Yes IECSE Listed of China: Yes DSL Listed of Canada: Yes

NZloC Listed of New Zealand: Yes PICCS Listed of Philippines: Yes EHS Listed of Malaysia: Yes

#### 16. Other Reference

Date issued: 03.06.2015 Date revised: 06.10.2015

Revision No: 1

- This SDS has been issued by Hanwha Chemical Thailand Co., Ltd. complied with Globally Harmonized System of Classification and Labeling of Chemicals (GHS), fifth revised edition of the GHS, published in 2013.
- This SDS has been issued only to help the purchasers, agencies or the third parties who's needed to handle the material with safety, therefore, there should be no regal and technical responsibility if it applies to the special purpose and using with the other materials, commercial application or expression.
- The purchasers and agencies must have the responsibilities for the observance and compliance of the relevant regulations of each government because the specifications of this SDS cannot be available in accordance with the provisions of each nation or area.