

SAFETY DATA SHEET


HCT Safety Data Sheet according to Korea Occupation safety and health Acts chapter 41

Date/Revised: 03. 06. 2015

Version: 2.0

Products: Soluryl 160

1. Chemical Product and Company Identification	
Product Name	Soluryl 160
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, shin@hanwhath.com
Emergency Information	Joon Woo Ahn ahnjoonwoo@hanwhath.com , 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	
Symbol	
Signal Word	Danger
Hazard Statement	Not applicable
Precautionary Statement	Not applicable
Other hazard classification(NFPA) : Health 1, Flammability 1, Reactivity 0	

3. Composition, Information on Ingredients		
Component	CAS #	wt%
Styrene-a-methyl styrene-Acrylic acid copolymer	52831-04-6	>98.0
Dipropylene glycol monomethyl ether	34590-94-8	<1.5

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4. First Aid Measures	
Eye	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
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
Environmental Precautions	Not necessary
Methods for Clearing	Vacuum into a closed container or Sweep up mechanically
7. Handling and Storage	
Handling	Handling may result in dust or powder from this product. When mixed with air in critical proportions and in the presence of an ignition source, the dust presents an explosion hazard. Use in a well ventilated area and handling methods that minimize dust production. Avoid contact with eyes, skin and 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

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8. Exposure Controls & Personal Protection	
Exposure Limit	Polymer/Solid, Not applicable
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
pH	Not applicable
Melting Point(°C)	Not applicable
Boiling Point(°C)	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 ~ 0.7
Solubility	Alkaline water soluble, Alcohol soluble, THF soluble
Partition Coefficient	Not applicable
Auto-ignition temp(°C)	Not applicable
Decomposition Temp(°C)	Not applicable
Viscosity(cps)	Not applicable
Molecular weight	15,500~17,500

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10. Stability & Reactivity	
Chemical Stability	Stable
Possibility of Hazardous Reaction	None under normal conditions
Conditions to avoid	Elevated temperature
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	None known
Symptoms related to the physical, chemical and toxicological characteristics	None known
Delayed and immediate effects and also chronic effects from short- and long-term exposure	None known
Numerical measures of toxicity	None known

12. Ecological Information	
Ecotoxicity (aquatic and terrestrial, where available)	None known
Persistence and degradability	None known
Bioaccumulative potential	None known
Mobility in soil	None known
Other adverse effects	None known

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

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Transport Hazard class	Not Classified as a dangerous good
Packing group, if applicable	Not applicable
Marine pollutant	Not Classified as a dangerous good
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

Safety, health and environmental regulations : Not applicable

16. Other Reference

Date issued: 03.06.2015

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- This SDS has been issued by Hanwha Chemical Thailand Co., Ltd. complied with Korea Occupation safety and health Acts chapter 41. This SDS has been stipulated through the widely known state of the art data based on current knowledge and information and a part of the information included has been referred to the Korean Occupational Safety & Health Care Agency.
- 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.