

Material Safety Data Sheet (MSDS)

Part I	I Chemical Product and Company Identification	
	Popular name or trade name of	Water-borne styrene-acrylic copolymer emulsion
	chemical product	
	English name of chemical product	Styrene-Acrylic emulsion
	Name of enterprise	Qingdao Highonour Chemical Tech Co., Ltd.
	Address	No.3, East Xinchang Road, Xinhe Ecological Chemical
		Technology Base, Pingdu, Qingdao City, Shandong
		Province, China
	Postal code	266717
	E-mail address	business@highonour.com

Part II	Composition/Information on Ingredients		
	Pure product:	Mixture: √	
Comp	position of harmful substances	Content (%)	CAS No.
Styr	ene and Acrylic Ester Polymer	50%±2%	25085-34-1
	Water	50%±2%	7732-18-5

Part III	Hazards Summarizing	
	Hazard class	Health, fire, reaction.
	Routes of entry	Eye contact, skin contact, inhalation, ingestion.
		Health hazard: Eye contact, the contact can cause
		irritation.
	Skin contact	No irritation against the skin, but the long-term
		contact can cause dermatitis.
	Inhalation	No inhalation generally.
	Ingestion	Irritate mouth, throat and stomach and can cause
		stomach disorder or injury.
	Flammable and explosive	Noninflammable
	danger	

Part IV	First-aid Measures	
	Skin contact	Wash with soapy water.
	Eye contact	Immediately lift the upper and lower eyelids to
		flush eyes with plenty of water for 15 minutes or
		more and send to hospital for treatment promptly.
	Inhalation	No inhalation generally
	Ingestion	Avoid inducing vomiting, if the sufferer is sober,

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give milk or water to dilute gastric juice, pay attention to keeping warm, keep at rest and send to hospital for treatment.

Part V	Fire-fighting Measures	
	Hazard property	Flash point: ———
		Spontaneous ignition point: ———
		Flammable upper limit and lower limit: ———
	Harmful combustion product	Nonflammable.
	Fire-fighting method and fire	
	extinguishing agent	
	Notices for fire fighting	

Part VI	Accidental Release Measures	
		Avoid flowing into sewer to prevent the polymer
		from depositing to block the sewer. Absorb the
		spill with substance with strong absorbability.

Part VII	Handling and Storage	
	Notices for operation	Use at well ventilated place.
	Notices for storage	Sealed storage at 5-40°C

Part VIII	Exposure Controls/Persona	l Protection
	Maximum allowable	
	concentration	
	Monitoring method	OSHA
	Respiratory system protection	Avoid breathing its vapor or smoke for long time or repeatedly. If exceed the occupational exposure limits, please wear respirator approved by NIOSH.
	Eye protection	Wear goggles.
	Body protection	Use clothes in accordance with sanitary protection.
	Hand protection	It is suggested to wear anti-seepage rubber gloves.
	Other protections	Follow general precautions. Immediately replace the polluted clothes. Wash hands after work.

Part IX Physical and Chemical Properties

Appearance and properties	Light blue liquid
Relative density (water =1)	
Boiling point (°C)	100
Relative vapor density (air =1)	1.0~1.15
Saturated vapor pressure	

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(mmHg)	
Heat of combustion (kJ/mol)	
Critical temperature (°C)	0
Critical pressure (MPa)	
Flash point(0 ^o C)	
Upper explosive limit % (V/V)	
Ignition temperature (°C)	
Lower explosive limit % (V/V)	
Dissolvability	Soluble in water
Main applications	Water based coatings, interior wall paint, color tile
	paint & etc.

Part X	Stability and Reactivity	
	Stability	Stable.
	Band agents	Oxidant.
	Hazard of polymerization	Nil.
	Decomposition product	Can produce combustible and toxic gas during
		thermal decomposition

Part XI	Toxicological Information	
	Toxicological information appears in this section when such data is available.	
	Acute toxicity	
	Acute oral toxicity	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
	For these raw materials	LD50, Rat, > 5,000 mg/kg
	Acute dermal toxicity	Prolonged skin contact is unlikely to result in absorption of harmful amounts.
	For these raw materials	LD50, Rat, > 2000 mg/kg No deaths occurred at this concentration.
	Acute inhalation toxicity	With good ventilation, single exposure is not expected to cause adverse effects. If material is heated or areas are poorly ventilated, vapor/mist may accumulate and cause respiratory irritation and symptoms such as headache and nausea.
	For these raw materials	The LC50 has not been determined. Specific Target Organ Systemic Toxicity (Repeated Exposure)No relevant data found.
	Skin corrosion/irritation	Brief contact is essentially nonirritating to skin.
	<u>Serious eye damage/eye</u>	May cause moderate eye irritation.

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irritation	May cause slight corneal injury.
Sensitization	
For skin sensitization	No relevant data found.
For respiratory sensitization	No relevant data found.
Specific Target Organ Systemic	Evaluation of available data suggests that this
Toxicity (Single Exposure)	material is not an STOT-SE toxicant.
Specific Target Organ Systemic	No relevant data found.
Toxicity (Repeated Exposure)	
<u>Carcinogenicity</u>	No relevant data found.
Teratogenicity	No relevant data found.
Reproductive toxicity	No relevant data found.
<u>Mutagenicity</u>	
For these raw materials	In vitro genetic toxicity studies were negative.
Aspiration Hazard	Based on physical properties, not likely to be an aspiration hazard.

Part XII	Ecological Information	
	Ecological toxicity:	Cam be harmful to aquatic organisms
	Biodegradability:	Degradation.
	Abiotic degradability:	Nil.

Part XIII	Disposal	
	Wastes properties	Hazardous waste <u>v</u> Industrial solid waste <u>v</u>
	Waste disposal methods	Disposal according to national or local laws and regulations.
	Notices for wastes	There probably is chemical residue in the empty container. Even if it has been emptied, it shall also be disposed with reference to Material Safety Data Sheet (MSDS) and the label.

Part XIV	Transport Information	
	Notices for transport	Non-dangerous goods, avoid temperature above
		40°C and below 5°C. Keep away from food, acid
		and alkali.

Part XV	Regulatory Information	
	Domestic laws and regulations	Convention on the Safe Use of Chemicals in Workplaces, Hazardous Chemicals Management Regulations, Regulations for the Supervision and Administration of Dangerous Goods Loaded by

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International regulations	Ships etc. Recommendation for Safe Use of Chemicals in Workplaces, united nations Proposals on the Transport of Dangerous Chemical Goods.
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Part XVI	Regulatory Information	
	Other information	Chemical Industry Publishing House publishes "Technical Complete Book on Safety of Hazardous Chemicals".

This information is based on a description of the product to the best of our knowledge, taking into account the safety-related needs of the product. This information should not be construed as a warranty against specific or general specifications. It is the responsibility of the user of the product to ensure that the product is suitable and satisfactory for its intended use and method of use. We are not responsible for any injury caused by the use of this information. In conclusion, our normal sales conditions still apply.