

**MATERIAL SAFETY DATA SHEET**

Page :1

Revised edition no : 02

P-806 SBR BONDING AGENT

Effective Date: 19-7-2014

1 Identification of the Product and the company

Chemical Name : SBR Bonding Agent
Type of product chemical family : N/A
Use : Cement modifier
Producer : TLC-KOYA CHEMICALS MANUFACTURING SDN BHD
No.22 & 23, Jalan Maju 1,
Cemerlang Industrial Estate,
81800 Ulu Tiram, Johor, Malaysia.
Tel: 607-8675798 Fax: 607-8675799
Website: www.koyachemicals.com Email: admin@koyachemicals.com

Emergency phone nr : See producer

2 Hazards Identification

Particular indication of danger to man and environment : On available data the Product was checked according to Directives 1967/548/EEC, 1999/45/EC and amendments: the Product can be considered as non-toxic, non-harmful, non-irritating, non-corrosive and non-oxidising.

Ecological Information : See Section 12.

3 Composition / Information on Ingredients

Aqueous dispersion of a styrene-butadiene copolymer containing carboxyl groups.

Substance name	%(weight)	CAS No / EC No / Index No	Symbol(s)	R-Phrase(s)
Water	: Equilibrium	7732-18-5 / 231-791-2 / ----		
Carboxylated copolymer of 1,3- butadiene and styrene	: ca 23%	9003-55-8 / ---- / ----		
Residual monomers	: < 0.025%			

4 First Aid Measures

Inhalation : Not applicable.
Skin Contact : In extreme cases : irritation.
Remove contaminated clothing. Wash skin with water and soap.
Eye Contact : In extreme cases : irritation.
Irrigate eyes with plenty of water for at least 10 minutes.
Obtain medical assistance if symptoms persist.
Swallowing : Nausea.
Clear mouth, nose and throat.
Seek as soon as possible medical assistance.

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5 Fire-Fighting Measures

- Fire Hazard : Product is water based and in wet form its fire hazard is low. The dried Product is combustible. Decomposition products can be toxic.
- Extinguishing Media : Water, powder, CO₂, sand... all extinguishing media are suitable. Protective clothing and self-contained breathing equipment should be available for firemen.
To prevent environmental damage, if possible collect water used to extinguish the fire in containers.

6 Accidental Release Measures

- Personal Protection : Wear PVC-gloves and goggles to contain spills.
Avoid repeated skin contact.
- Environmental Precautions : Prevent the Product contaminating soil and groundwater. Prevent the product entering sewers and waterways.
Cfr. Section 12.
- Cleaning / Recovery : Large spillages : contain and pump into containers.
Small spillages : absorb on sand, earth... and collect into containers for disposal.
Disposal should always comply with local, national or EEC regulations.
Cfr. Section 13

7 Handling and Storage

- Handling : Good industrial and personal hygiene practice should be followed.
No eating and drinking in the workplace. Ensure adequate ventilation.
- Storage : Storage temperature : between +5 and +40°C.
Protect from frost and direct sunlight.
Drums and bottles : material is plastic or steel.
Bulk tanks : stainless steel, aluminium, plastic coated materials...
Clean bulk tanks periodically to prevent accumulation of bacteria.
Do not store the Product longer than 6 months, without consulting the supplier.
- Specific Use : Use the best available methods of handling our Products whereby the employees enjoy maximum safety and whereby the environment is minimally affected.

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8 Exposure Controls / Personal Protection

Exposure limit values : No danger in normal ambient conditions.
There are no specific limiting values for professional exposure.
There are no biological limiting values.
Users should determine the conditions for safe use of the Product.
Cfr. Section 7 "Handling".

Exposure Controls : Occupational exposure controls
- Respiratory protection : not applicable
- Hand protection : waterproof PVC-gloves (CE)
- Eye protection : goggles or safety glasses (CE)
- Skin protection : Not applicable.
- Avoid repeated skin contact.

: Environmental exposure controls
- The Product must not be discharged directly into drains or waterways without treatment.

9 Physical and Chemical Properties

Physical state : Liquid
Colour : White (Milk-like)
Odour : Characteristic
pH Value : 8.5 - 9.5
Initial boiling point [°C] : Like water
Density [kg/l @ 20°C] : ca 1.02
Vapour pressure [hPa] : Like water
Viscosity : <300 mPa.s (Brookfield RV 1/10) @20°C
Solubility in water : Miscible
Flash point [°C] : Not applicable
Auto-ignition temperature [°C] : Not applicable
Explosion limits - lower [%] : Not applicable
Explosion limits - upper [%] : Not applicable
Log P octanol / water [20°C] : Not established.

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10 Stability and Reactivity

- Conditions to avoid : Stable under the recommended storage conditions. Cfr. Section 7 "Storage".
Bacterial degradation can occur if the Product is stored for an unusually long period or is stored under unsuitable conditions.
- Materials to avoid : Avoid strong acids and materials which react with water.
- Hazardous decomposition products : Cox and possibly other toxic vapours in case of fire.

11 Toxicological Information

- On Product : Low toxicity is indicated by available by available data.
Under normal industrial conditions, there is no indication that the Product can be considered as a health risk.
Skin contact should be avoided to prevent possible long-term or short-term sensitisation.

12 Ecological Information

- Ecotoxicity : The Product is miscible with water and as such could cover considerable distances if spilled into waterways. Even a small spillage will whiten the appearance of water.
Water for sewage treatment, that has been contaminated with small quantities of the Product, will not affect the biomass. High concentrations may be harmful to fish and micro organisms.
- Mobility : Not established.
- Persistence and degradability : There is only a slow environmental degradation of the Product.
- Bioaccumulative potential : There is seemingly no tendency for bioaccumulation.
- Other adverse effects ; Unknown.

13 Disposal Considerations

The Product must not be discharged directly into drains or waterways without treatment.
The polymer content can be treated by various methods: filtration, coagulation and settling etc.
All Product disposal should comply with local, national or EEC regulations.
Further information can be obtained from our Environment Department.

14 Transport information

- General information : This Product is not regulated for road/rail & sea transport.

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15 Regulatory Information

Classification and labeling : Classification /symbol - not regulated
Governing directive : Occupational Safety and Health (Classification, Packaging and Labeling of Hazardous Chemicals) Regulations 1997
Safety advice : (May contain information in excess of requirements under applicable laws.
S23 Do not breathe gas/fumes/vapor/spray
S24 Avoid contact with skin
S33 Take precautionary measures against static discharges
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16 Other information

Further information : None
Print date : 19-7-2014

N/A - Not Applicable N/D - Not Determined

All recommendations for the use of our products, whether given by us in writing, orally, or to be implied from data or test results obtained by us, are based on the current state of our knowledge at the time such recommendations are made. When additional information is obtained, these recommendations may be updated. They may also be influenced by circumstances outside our control. Notwithstanding such recommendations, the user is responsible to determine that the product as supplied by us, is suitable for the process or purpose he intends to use it. The user of the product is solely for compliance with all laws and regulation applying to the use of the product. Since we cannot control the application, use or processing of the products, we do not accept responsibility therefore. The user shall ensure that the intended use of the products will not infringe in any party's intellectual property rights.

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