

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF PRODUCT AND COMPANY

Product: Ronabond SBR  
Company: Ronacrete (Far East) Ltd., 16/F, No. 3 Lockhart Rd,  
Wanchai, Hong Kong SAR  
Tel/Fax: +852 2865 5872 / +852 2865 5568

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### 2. COMPOSITION

|  |         |
|--|---------|
| Carboxylated styrene butadiene polymer | 47%     |
| Water                                  | Balance |

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### 3. HAZARDS IDENTIFICATION

On available data the Product has no hazard classification according to EC directive 88/379/EEC (CHIP Regulations in the UK)

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### 4. FIRST AID MEASURES

Eye Contact: May cause slight irritation and soreness  
Wash out with plenty of clean water  
Seek medical attention if symptoms persist

Skin Contact: Remove soiled clothing  
Wash off with soap and water

Swallowing: May cause nausea  
Give plenty of water to drink  
Seek medical attention

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### 5. FIRE FIGHTING MEASURES

Product is water based and low fire hazard. The dried polymer is combustible. All Extinguishing media are suitable. Fire fighters should wear breathing apparatus to avoid smoke inhalation.

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### 6. ACCIDENTAL RELEASE MEASURES

Large spillages should be contained and pumped into a vessel.  
Small spillages should be absorbed on sand etc for disposal (Refer to Section 13).  
Prevent product entering drains or watercourses (Refer to Section 12).

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### 7. HANDLING AND STORAGE

Handling: No special precautions needed. Ensure adequate ventilation.  
Storage: Store between +5 and +25°C protected from frost and direct sunlight.  
Bulk tanks should be cleaned and sterilised at least annually to prevent accumulation of bacteria.  
Observe safe tank entry procedures.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Good general ventilation is normally adequate. Where product is dried or sprayed local extraction is recommended.

Respiratory protection: If sprayed product use suitable respirator.  
Hand protection: For frequent contact wear impermeable gloves.  
Eye protection: Goggles, face visor or safety glasses recommended.  
Skin protection: If severe splashing occurs wear waterproof overalls.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

|                      |                             |
|----------------------|-----------------------------|
| Appearance:          | milky white liquid          |
| Odour:               | faint aromatic              |
| pH:                  | 9.0 - 10.0                  |
| Boiling point:       | approx. 100°C (water)       |
| Flash point:         | not applicable              |
| Flammability:        | not applicable              |
| Autoignition:        | not applicable              |
| Explosive/oxidising: | not applicable              |
| Vapour pressure:     | as water                    |
| Relative density:    | approx 1.0                  |
| Solubility in water: | miscible in all proportions |
| Partition coeff.     |                             |
| n-octanol/water:     | not applicable              |
| VOC:                 | < 250 grams per litre       |

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### 10. STABILITY AND REACTIVITY

Product is stable under recommended storage conditions.

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### 11. TOXICOLOGICAL INFORMATION

Available data indicate low toxicity.  
Long term experience of this product type indicates no danger to health when handling under industrial conditions.

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### 12. ECOLOGICAL INFORMATION

The product is miscible with water and could be transported considerable distances if allowed to enter waterways. Even low concentrations in water give a pronounced white appearance.  
The product will degrade only very slowly in the environment.  
There is no evidence of any tendency for bioaccumulation.  
In low concentrations (<100mg/litre) Ronabond SBR exhibits low toxicity to fish, but in higher concentrations may be harmful to fish and aquatic life.  
Low concentrations of Ronabond SBR in water for sewage treatment do not affect the biomass; the polymer particles are absorbed onto the sludge and eliminated from the waste stream.

The BOD of dilute Ronabond SBR is relatively low (BOD<sub>5</sub> approx. 100ppm at 0.1% concentration).

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### 13. DISPOSAL CONSIDERATIONS

Waste Ronabond SBR must not be discharged directly into drains or waterways without treatment. The polymer content may be separated by coagulation and disposed of to landfill or by incineration. Waste water containing Ronabond SBR may be treated by coagulation setting, flotation or ultrafiltration. Disposal should always comply with local, national or EC regulations.

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### 14. TRANSPORT INFORMATION

The product is not classified as dangerous for Transport.

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### 15. REGULATORY INFORMATION

The product has no hazard classification according to EC Directive 88/379/EEC.

Type of Regulated Paint under the Air Pollution Control (Volatile Organic Compounds) Regulation of Hong Kong: Other adhesives

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## 16. OTHER INFORMATION

This Material Safety Data Sheet conforms to EC Directive 91/155/EEC

The information given here is to the best of our knowledge true and accurate and is provided solely for making safety assessments. It is not a sales specification or an indication of suitability for a particular use.

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