

# MATERIAL SAFETY DATA SHEET ISBCS

## 1. Product Name and Company Name

**Trade name:** ISBCS

**Company name:** PMB Technologies

**Product use:**

ISBCS can be used in preparation, surface sealing, encapsulation and binding of various soils, aggregates, minerals and biogenic substances. Specifically designed for use in road sealing, asphalt crack repair.

**Address of company:**

PMB Technologies  
L6 77 Castlereagh St  
Sydney, NSW 2000

Phone (+61) 0498131482

**Last updated:** 3rd July 2013

**Number of pages:** 5

## 2. Hazards Identification:

**Statement of hazardous Nature:**

The bitumen component of this product is classified as Xi Hazardous according to criteria of ASCC. Not a dangerous good according to the Australian Dangerous Goods code ADG.

**Risk phrases:**R36/38.Irritating to eyes and skin

**Safety phrases:**s23,s24/25,s36/37.Do not breathe vapours, spray or mist. Avoid contact with skin and eyes, wear suitable protective clothing

**SUSDP classification:** None allocated

**ADG classification:** None allocated. Not a dangerous good under ADG code

**UN number:** none allocated.

## 3. Composition/Information on Ingredients

Bitumen:

CAS number 8052-42-4 45%-48 %

Anionic emulsifier:

CAS number proprietary 3%-4%

Aqueous dispersion of styrene-butadiene copolymer:

CAS number proprietary 11%-15%

Water:

CAS number 7732-18-5 38%-43%

Other nonhazardous ingredients:

CAS number proprietary 0%- 4%

This is a commercial product whose exact ratio of components may vary slightly .Minor quantities of other nonhazardous ingredients are also possible.

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### 4. Potential Health effects

#### Inhalation

##### Short term exposure:

Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

##### Long term exposure:

No data for health effects associated with long term inhalation

#### Skin contact:

##### Short term exposure:

Available data indicates that this product is not harmful. It should present no hazards in normal use. However product is a skin irritant. Symptoms may include itchiness and reddening on the contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased

##### Long term exposure:

No data for health effects associated with long term skin exposure

#### Eye contact:

##### Short term exposure:

This product is an eye irritant. Symptoms may include stinging and reddening of the eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However lengthy exposure or delayed treatment may cause permanent damage

##### Long term exposure:

No data for health effects associated with long term eye exposure

#### Ingestion:

##### Short term exposure:

Significant oral exposure is considered to be unlikely. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in the mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

##### Long term exposure:

No data for health effects associated with long term ingestion.

#### Carcinogen status:

**ASCC:** no significant ingredient is classified as carcinogenic by ASCC

**NTP:** no significant ingredient is classified as carcinogenic by NTP

**IARC:** bitumen is class 3-unclassifiable as to carcinogenicity to humans.

### 5. First Aid Measures

**General Advice:** you should call the poisons information centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand)

**Inhalation:** No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than 30 minutes, seek medical advice.

**Skin contact:** Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.

**Eye contact:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water in unaffected eye or onto the face. Obtain immediate medical attention. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If swallowed, do not induce vomiting. Wash mouth with water and contact poisons information centre or call a doctor.

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### 6. Fire Fighting Measures:

**Suitable extinguishing media:** Not combustible uses extinguish media suited to burning materials.

**Fire fighting:** if a significant quantity of this product is involved in a fire, call fire brigade.

**Flash point:** Does not burn

**Upper flammability limit:** does not burn

**Lower flammability limit:** does not burn

**Auto ignition:** N/A –does not burn

**Flammability class:** does not burn

### 7. Accidental Release Measures:

In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin should be covered. If there is a significant chance that vapours or mists are likely to build up in the clean-up area, we recommend that you use a respirator. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculate or other suitable absorbent materials. If spill is too large and absorbent materials aren't working try to create a dike to stop spill entering drains or water ways.

### 8. Handling and Storage

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Wear protective clothing.

**Storage:** Make sure that the product does not come into contact with substances listed under incompatibilities. Some liquid preparations settle or separate on standing and may require stirring before use. Check label there may be further storage recommendations. Keep container tightly closed store in a cool dry place, prevent from freezing.

### 9. Exposure Controls and Personal Protection

No special equipment is usually needed when handling small quantities. The following instructions are for bulk use of product.

**Hand and skin protection:** prevent skin contact by wearing impervious gloves, clothes and preferably apron.

**Eye Protection:** Protective glasses or goggles should be worn when product is being used. Emergency eye wash facilities are also recommended if possible.

**Ventilation:** this product should only be used in a well ventilated area where there is adequate ventilation, if necessary use a fan.

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### 10. Physical and Chemical Properties

**Physical description and colour:**

Opaque brown liquid with blue swirl

**Odour:**

Faint ammonia odour

**Boiling point:**

Approximately 100 degrees Celsius @ 100kpa

**Freezing/melting point:**

Approximately 0 degrees Celsius

**Volatile component:**

Water 38%-43%

**Vapour pressure:**

2.3 kpa @ 20 degrees Celsius (water vapour pressure)

**Vapour density:**

(Air=1)<1 water

**Specific gravity:**

1.01-1.03 g/cm<sup>3</sup>

**Water solubility:**

Soluble

**PH:**

8.5 -10.5 (typically)

**Auto ignition:**

Not applicable does not burn

**Stabilisation:**

Anionic

**Shelf life:**

6-12 months stored at temperatures between 10\*c – 30\*c

### 11. Stability and Reactivity

**Reactivity:**

This product is not likely to react or decompose under normal storage conditions. However if you have any doubts, Contact the supplier for shelf life properties.

**Conditions to avoid:**

None known

**Incompatibilities:**

No particular incompatibilities

**Fire Decomposition:**

This product is likely to decompose only after heating to dryness, followed by further strong heating. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water .Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:**

This product will not undergo polymerisation reactions

**Thermal decomposition:**

No decomposition if used correctly

**Toxicology Information:**

Based on our experience and information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated use.

**Target organs:** Skin, Eyes

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### 12. Hazardous Ingredients:

No ingredient mentioned in the list of designated hazardous substances is present in this product at hazardous concentrations.

### 13. Ecological Information

**Eco toxicity:**

**Micro-organisms/effect on activated sludge:**

Inhibition of degradation activity in activated sludge is not anticipated during correct introduction of low concentrations.

**Persistence and degradability:**

Assessment: the product can be virtually eliminated from water by abiotic E.G: absorption onto activated sludge

**Additional information:**

Do not release untreated into natural waters. The local regulations on waste – water treatment must be followed.

### 14. Disposal Considerations

There are many pieces of legislation covering waste disposal and they differ in each state, territory and country, So the user must refer to the laws operating in their area of use.

### 15. Transport Information

**ADG code:** this product is not classified as a dangerous good. No special transport conditions are necessary unless required by other regulations.

### 16. Regulator Information:

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.

### 17. Other Information

**Acronyms:**

**ADG Code:** Australian code for the transport of Dangerous goods by road or rail

**AICS:** Australian inventory of chemical substances

**ASCC:** Office of the Australian safety and compensation council

**CAS no :** Chemical Abstracts Services Registry Number

**NTP:** National toxicology Program(USA)

**IARC:** International agency for research and cancer