

MATERIAL SAFETY DATA SHEET ISB4000

1. Product Name and Company Name

Trade name: ISB4000

Company name: PMB Technologies

Product use:

ISB4000 can be used in preparation, stabilisation, encapsulation, binding, sealing and dust mitigation of various soils, aggregates, minerals and biogenic substances.

Address of company:

PMB Technologies

L6, 77 Castlereagh St, Sydney, NSW 2000, Australia

ABN 14 153 586 380

Last updated: 3rd of July 2013

Number of pages: 4

2. Composition/Information on Ingredients

Chemical nature:

Copolymer based on styrene - butadiene water soluble emulsion

Ingredients:

Aqueous dispersion of styrene-butadiene copolymer:

CAS no proprietary 54%-57%

Water:

CAS no 7732-18-5 43%-46%

Other non-hazardous ingredients: 0%-3%

This is a commercial product whose exact ratio of components may vary slightly

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

3. Potential Health effects

Acute Inhaled:

Inhalation over exposure is not expected at normal use temperatures

Acute Skin:

Product contact with skin is not expected to cause irritation

Acute Eye:

Product contact with eyes is not expected to cause irritation

Acute Swallowed:

The product is considered slightly toxic by ingestion

Chronic:

Skin and mucous membrane irritation may occur after prolonged or repeated contact or exposure with this product.

4. First Aid Measures

General Advice: Avoid prolonged contact with skin and eyes

Inhalation: If irritated, remove affected patient to fresh air

Skin contact: Wash off the skin with soap and water. Remove contaminated clothing and wash before reuse

Eye contact: Immediately flush the contaminated eye(s) with water for several minutes or until the product is removed, while holding the eyelid(s) open. Obtain immediate medical attention.

Ingestion: If swallowed, do not induce vomiting. Drink water or milk. Seek medical attention.

Advice to doctor:

Treat symptomatically

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5. Fire / Explosion Hazard Information:

Flammability:

Not flammable under normal conditions of use. At temperatures above 100 degrees Celsius, the material can splatter. The polymer film can burn. There may be some traces of flammable material found in the vapour space of closed containers

Firefighting procedures:

Fire fighters should wear self-contained breathing apparatus. Fight fire using water spray, fog or carbon dioxide. Water spray may use to cool fire exposed containers.

Decomposition or by-products:

Any thermal decomposition may yield monomers

6. Accidental Release Measures:

Exercise care as floor may be slippery.

Use appropriate personal protection as specified in “exposure controls and personal protection”

Contain spill with sand/sawdust or earth. Remove solid waste before material dries in suitable containers. Flush area with water after removal.

If exposed to product follow recommendations as specified in “first aid measure”

Keep spills and cleaning run off out of local sewers .Coagulate the dispersion. Remove clean supernatant and flush to a chemical sewer. Incinerate liquid and contaminated solids in accordance with local, state and federal Laws.

7. Handling and Storage

Handling: Handle in accordance with good industrial hygiene and safety practice.

Storage: Keep container tightly closed store in a cool dry place, prevent from freezing.

Exposure standards:

No exposure standards have been established for this material by the National occupational health and safety commission (NOHSC)

Engineering controls:

It is recommended where there are occurrences of mist or vapours that the use of the local exhaust ventilation, vented to atmosphere.

8. Exposure Controls and Personal Protection

Hand protection:

Chemical resistant protective gloves.

(PVC/Rubber/Nitrile/Chloroprene)

Eye Protection:

AS1337- use chemical splash goggles

Respiratory protection:

AS1716-None required under normal conditions. However where mist occurs in spraying circumstances, wear AS approved disposable half – mask dust mist respirator

General safety and hygiene measures:

Avoid contact with eyes and prolonged skin contact.

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9. Physical and Chemical Properties

Physical description and colour:

White liquid

Odour:

Faint fruity odour

Boiling point:

Approximately 100 degrees Celsius

Melting point: Approximately 0 degrees Celsius

Volatile component:

Water 43%-46%

Vapour pressure:

2.3 kpa water

Vapour density:

(Air=1)<1 water

Specific gravity:

1.04 g/cm³ @ 20*c

Water solubility:

Soluble

PH value:

7- 9 (typically)

Stabilisation:

Anionic

Shelf life:

6-12 months stored at temperatures between 10*c – 30*c tightly sealed containers

10. Stability and Reactivity

Thermal decomposition:

No decomposition if used correctly

Incompatibilities:

This product must not come into contact with bare iron or copper and its alloys during storing

11. 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.

12. Ecological Information

Eco toxicity:

Micro-organisms/effect on activated sludge:

Inhabitation 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.

13. Disposal Considerations

Must be dumped or incinerated in accordance with local regulations.

A waste code in accordance with the European waste catalogue (EWC) cannot be specified, due to dependence on the usage.

Observe National and local legal requirements.

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14. Transport Information:

Not classified as hazardous under transport regulations.

15. Other Information:

The information contained herein is based on the present state of our knowledge and does not guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

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

