



# MATERIAL SAFETY DATA SHEET

## Inkabor Soluble Boron

### 1. IDENTIFICATION

Product Name	Inkabor Soluble Boron.
Chemical Name	Disodium Octoborate Tetrahydrate
Other Name/s	None allocated.
Manufacturers Name	Nutri-Tech Solutions Pty Ltd.
Telephone Number	+61 (0)7 5472 9900.
U.N. Number	None allocated.
Dangerous Goods Class	None allocated.
Secondary Risk	None allocated.
Hazchem Group	None allocated.
Pack Group	None allocated.
EPG	None allocated.
Poisons Schedule	None allocated.
Uses	Fertiliser and soil additive.
CAS number	12008-41-2 or 12280-03-4.

### 1.1 Emergency Contact Points

Police and Fire Brigade	000.
If ineffective	13 22 03 (Exchange).
For emergency response	1800 625 526.
National Poisons Information Centre	13 11 26 (from anywhere in Australia).

### 1.2 Physical Description/Properties

Appearance	White powder.
Odour	No odour.
pH	7-9
Flammability	Non flammable.
Solubility in Water	148 g/L at 20°C. 421 g/L at 60°C.
Lower Explosion Limit	Not applicable.
Upper Explosion Limit	Not applicable.
Bulk Density	No data available.
Specific Gravity	No data available.
Melting Point	No data available.
Boiling Point	No data available.
Vapour Pressure	No data available.
Evaporation Rate	No data available.



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- Reactivity Data . . . . . No data available.
- 1.3 Other Properties . . . . . None.
- 1.4 Ingredients . . . . . Disodium Octoborate Tetrahydrate CAS No. 12008-41-2.

## 2 HEALTH HAZARD INFORMATION

### 2.1 Health Effects

- Acute . . . . . The product presents modest acute toxicity; if it is accidentally ingested in quantities larger than 2-3 grams, it can cause gastrointestinal upsets.
- Ingestion . . . . . Ingestion can cause nausea, vomiting, diarrhoea, and delayed effects of skin reddening.
- Eye Contact . . . . . In the powdered state is moderately irritating to the eyes.
- Skin Contact . . . . . It is not absorbed via unbroken skin and does not cause irritation to unbroken skin.
- Inhalation . . . . . May cause slight coughing and sneezing.

### 2.2 First Aid and Emergency Procedures

- Ingestion . . . . . Drink large quantities of water or milk.
- Eye Contact . . . . . Immediately hold the eyes open and wash with plenty of water for at least 15 minutes. Ensure complete irrigation of the eye by keeping eyelids apart and occasionally lifting upper and lower eyelids away from the eye.
- Skin Contact . . . . . Wash with water, the product is not a skin irritant.
- Inhalation . . . . . No specific treatment as the product does not present risk by inhalation.

### 2.3 First Aid Facilities . . . . . Eye wash facilities and shower.

### 2.4 Advice to Doctor . . . . . Treat symptomatically based on judgement of doctor and individual reactions of patient.

### 2.5 Toxicity Data

- Acute Toxicity . . . . . Ld50 (oral) 2000mg/kg (rat).
- Chronic Effects . . . . . Very rarely chronic poisoning provokes digestive problems and skin lesions.
- Corrosiveness . . . . . Lightly irritative effects to the eyes and primary respiratory tract.
- Sensitising properties . . . . . None.
- Carcinogenesis . . . . . None.
- Mutagenesis . . . . . None.





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Reproductive studies including Teratogenesis . . . . Large doses ingested can provoke atrophy in in the male reproductive organs as a result in studies on animals.

### 3 PRECAUTIONS FOR USE

3.1 Materials to Avoid . . . . . In reaction with strong reducing agents such as metallic hydrides, alkaline metals, acetic anhydride develops hydrogen which could provoke an explosion.

Stability . . . . . Stable under normal conditions. It gradually loses its own water of crystallisation when heated.

3.2 Personal Protection . . . . . Provide adequate ventilation.

Eye . . . . . ,Safety glasses with side shields; or as required chemical goggles. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

Hands and feet. . . . . Wear general protective gloves: ie disposable polythene gloves or cotton gloves or light weight rubber gloves with barrier cream. Approved safety footwear.

Other . . . . . Overalls.

Respiratory . . . . . Always wear a NIOSH approved respirator.

3.3 Special Fire Fighting Procedures . . . . . Material is not flammable, combustible or explosive and it is used as a flame retardant. Do not use water directly on material to avoid damaging the product and polluting the environment.

3.4 Flammability . . . . . Material is not flammable.

### 4 SAFE HANDLING INFORMATION

4.1 Storage/Transport. . . . . Keep the product away from strong reducing agents. Keep containers hermetically closed and stored in a dry well ventilated area.

#### 4.2 Packaging/Labelling

UN No . . . . . No applicable.

Pack Group . . . . . Not applicable.

Class . . . . . Not applicable.

Hazchem Code . . . . . Not applicable.

Subs Risk . . . . . Not applicable.

EPG No . . . . . Not applicable.

Shipping Name. . . . . Zinc sulfate monohydrate.

Hazard . . . . . None.





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4.3 Spills and Disposal . . . . . Circumscribe the area to avoid contamination of water courses and water sources. Clean up and use for intended purpose if possible.

If contamination of drains or waterways occurs , advise emergency services.

Disposal . . . . . Dispose of in accordance with all local, State and Federal regulations.

## 4.4 Fire/Explosion Hazard

Fire/Explosion . . . . . Material is not flammable, combustible or explosive and it is used as a flame retardant. Do not use water directly on material to avoid damaging the product and polluting the environment.

Extinguishing Media . . . . . Use appropriate media for surrounding fire conditions.

5 OTHER INFORMATION . . . . . No data available.

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