



# Safety Data Sheet

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Infosafe No™ 3CHFQ Issue Date : July 2020 RE-ISSUED by ABS

Product Name : **SODIUM TETRABORATE 5%**

Classified as hazardous

## 1. Identification

**GHS Product Identifier** SODIUM TETRABORATE 5%

**Product Code** ATSB5

**Company Name** AUSTRALIAN BIOSTAIN Pty Ltd

**Address** 24 - 28 Stratton Drive,  
Traralgon, Victoria, Australia, 3844  
www.australianbiostain.com.au

**Telephone/Fax Number** Tel: (03) 5176 2855

**Emergency phone number** CHEMCALL (24 hours): 1800 127 406 (Australia) / +64-4-917-9888 (International)

**Emergency Contact Address** CHEMCALL: 1800 127 406 (Australia) / +64-4-917-9888 (International)

**Recommended use of the chemical and restrictions on use** Laboratory reagent.

**Other Information** Australian Biostain Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Australian Biostain Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Australian Biostain Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## 2. Hazard Identification

**GHS classification of the substance/mixture** Toxic to Reproduction: Category 1B

**Signal Word (s)** DANGER

**Hazard Statement (s)** H360 May damage fertility or the unborn child.

**Pictogram (s)** Health hazard



**Precautionary statement – Prevention** P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P281 Use personal protective equipment as required.

**Precautionary statement – Response** P308+P313 IF exposed or concerned: Get medical advice/attention.

**Precautionary statement – Storage** P405 Store locked up.

**Precautionary statement – Disposal** P501 Dispose of contents/container to an approved waste disposal plant.

## 3. Composition/information on ingredients

**Chemical Characterization** Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>	<b>Hazard Symbol</b>	<b>Risk Phrase</b>
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Sodium Tetraborate Decahydrate	1303-96-4	5 %
Water to make a total of 100%	7732-18-5	-

## 4. First-aid measures

**Inhalation** If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Ingestion** Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice if symptoms persist.

**Skin** Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical attention in severe cases, or if irritation develops.

**Eye contact** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**First Aid Facilities** Maintain eyewash fountain and drench facilities in work area.

**Advice to Doctor** Treat symptomatically based on judgement of doctor and individual reactions of the patient.

**Other Information** For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

## 5. Fire-fighting measures

**Hazards from Combustion Products** Not combustible. Toxic and/or irritating gases, vapours and fumes of sodium oxide and borane/boron oxides if allowed to evaporate to dryness.

**Specific Methods** Use extinguishing media most appropriate for the surrounding fire. This product contains a substantial proportion of water therefore there are no restrictions on the type of extinguishing media which may be used.

**Other Information** Prevent fire-fighting water from entering surface water or groundwater.

## 6. Accidental release measures

**Personal Precautions** Avoid inhalation, contact with skin, eyes and clothing.

**Personal Protection** Wear protective clothing specified for normal operations (see Section 8)

**Clean-up Methods - Small Spillages** Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.

## 7. Handling and storage

**Precautions for Safe Handling** Avoid contact with eyes, skin, and clothing. Keep containers closed when not in use. Use with adequate ventilation. Wear suitable protective clothing. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Practice good personal hygiene, that is, always wash hands before eating, drinking smoking or using the toilet facilities. When using do not eat, drink or smoke. Keep away from incompatibles such as oxidizing agents.

**Conditions for safe storage, including any incompatibilities** Store in tightly closed containers, in order to minimise contamination, in a cool, dry, well-ventilated area away from incompatible substances.

**Storage Temperatures** Store at room temperature (15 to 25 °C recommended).

## 8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Sodium Tetraborate Decahydrate			5		Borates, tetra, sodium salts (decahydrate)



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<b>Other Exposure Information</b>	These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. A time weighted average (TWA) has been established for Borates, tetra, sodium salts (decahydrate) (Safe Work Australia) of 5 mg/m <sup>3</sup> . The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.
<b>Appropriate engineering controls</b>	Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
<b>Respiratory Protection</b>	Usually not required. Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
<b>Eye Protection</b>	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
<b>Hand Protection</b>	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
<b>Personal Protective Equipment</b>	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
<b>Body Protection</b>	Clean clothing or protective clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
<b>Hygiene Measures</b>	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Clear colourless solution.
<b>Odour</b>	Odourless.
<b>Solubility in Water</b>	Completely miscible
<b>pH</b>	9.5 (5% aq soln). Aqueous solution is alkaline to litmus and phenolphthalein.
<b>Flammability</b>	Non combustible material.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable at room temperature in closed containers under ordinary conditions of use and storage.
<b>Conditions to Avoid</b>	Strong heating and incompatible materials.
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Toxic and/or irritating gases, vapours and fumes of sodium oxide and borane/boron oxides if allowed to evaporate to dryness.
<b>Possibility of hazardous reactions</b>	Not known.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat): 4500 - 5000 mg/kg - sodium tetraborate.
<b>Ingestion</b>	May cause irritation of the digestive tract, gastric upset, headache, nausea, vomiting, diarrhoea, abdominal pain, muscular spasms, dullness, weakness and fatigue. Ingestion of 5-10 grams of sodium



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<b>Inhalation</b>	tetraborate has produced severe vomiting, diarrhoea, shock and death. Symptoms may include minor discomfort to throat and lungs and/or coughing.
<b>Skin</b>	May cause mild irritation in contact with skin. Symptoms include mild transient discomfort, redness, itching, pain and dry skin. Unlikely to cause any lasting effects. Sodium tetraborate is poorly absorbed through intact skin.
<b>Eye</b>	Symptoms may include redness, tearing, mild transient discomfort, pain, stinging and blurred vision. Unlikely to cause any lasting effects.
<b>Respiratory sensitisation</b>	Not classified based on available information.
<b>Skin Sensitisation</b>	Not classified based on available information.
<b>Germ cell mutagenicity</b>	Not classified based on available information.
<b>Carcinogenicity</b>	Not classified based on available information.
<b>Reproductive Toxicity</b>	Toxic to Reproduction: Category 1B H360 May damage fertility or the unborn child.
<b>STOT-single exposure</b>	Not classified based on available information.
<b>STOT-repeated exposure</b>	Not classified based on available information.
<b>Chronic Effects</b>	Prolonged or repeated ingestion or skin absorption of sodium tetraborate may cause anorexia, weight loss, vomiting, mild diarrhoea, skin rash, convulsions, and anaemia. Repeated or prolonged contact with skin may cause dermatitis. Boron effects the central nervous system. Boron poisoning causes depression of the circulation, persistent vomiting and diarrhoea, followed by profound shock and coma.
<b>Mutagenicity</b>	Not classified based on available information.

## 12. Ecological information

<b>Ecotoxicity</b>	Herbicidal effect. Trace element. Fertilizing effect possible. No ecological problems are to be expected when the product is handled and used with due care and attention.
<b>Bioaccumulative Potential</b>	Concentration in organisms is not to be expected.
<b>Biological Properties</b>	Herbicidal effect.

## 13. Disposal considerations

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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## 14. Transport information

<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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## 15. Regulatory information

<b>Regulatory Information</b>	Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. All of the significant ingredients in this formulation are compliant with NICNAS regulations.
<b>Poisons Schedule</b>	S5

## 16. Other Information

<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Chemical Information System, 2005'.
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## Other Information

Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.  
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.

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