

# SAFETY DATA SHEET

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name BORAX

Synonyms BORAX (ANHYDROUS) ● DEHYBOR ● DISODIUM TETRABORATE ● ETIBOR-68 ● PYROBOR ● SODIUM

BIBORATE • SODIUM BORATE • SODIUM PYROBORATE • SODIUM TETRABORATE

1.2 Uses and uses advised against

Uses CLEANING AGENT ◆ FERTILISER ◆ GOLD PROCESSING REAGENT ◆ PRESERVATIVE

1.3 Details of the supplier of the product

Supplier name DUBOIS CHEMICALS AUSTRALIA PTY LIMITED

Address 305 Frankston Dandenong Rd, Dandenong South, VIC, 3175, AUSTRALIA

**Telephone** (03) 9768 3860

Email sales@duboischemicals.com.au

Website http://duboischemicals.com.au/

1.4 Emergency telephone numbers

**Emergency** 13 11 26 (Poisons Information Centre)

# 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**Physical Hazards** 

Not classified as a Physical Hazard

**Health Hazards** 

Toxic to Reproduction: Category 1B

**Environmental Hazards** 

Not classified as an Environmental Hazard

2.2 GHS Label elements

Signal word DANGER

**Pictograms** 



**Hazard statements** 

H360FD May damage fertility. May damage the unborn child.

Prevention statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response statements

P308 + P313 IF exposed or concerned: Get medical advice/ attention.



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Storage statements

P405 Store locked up.

**Disposal statements** 

P501 Dispose of contents/container in accordance with relevant regulations.

#### 2.3 Other hazards

No information provided.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
SODIUM TETRABORATE, ANHYDROUS	1330-43-4	215-540-4	>99%

### 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to Eye

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). Rinse

mouth with water.

First aid facilities Eye wash facilities should be available.

### 4.2 Most important symptoms and effects, both acute and delayed

May impair fertility. May cause harm to the unborn child.

### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

# 5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases if strongly heated.

# 5.3 Advice for firefighters

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

# 5.4 Hazchem code

None allocated.

# 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Contact emergency services where appropriate.

### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

# 6.3 Methods of cleaning up

Contain spillage, then collect and place in suitable containers for reuse or disposal. Avoid generating dust.



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### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure product is adequately labelled, protected from physical damage and sealed when not in use.

### 7.3 Specific end uses

No information provided.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

## **Exposure standards**

Ingredient	Reference	TWA		STEL	
Ingredient	Reference	ppm	mg/m³	ppm	mg/m³
Borate compounds	SWA [Proposed]		0.75		
Borates, tetra, sodium salts (anhydrous)	SWA [AUS]		1		

### **Biological limits**

No biological limit values have been entered for this product.

#### 8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas.

**PPE** 

Eye / Face Wear dust-proof goggles.

Hands Wear neoprene, polychoroprene, nitrile or butyl gloves.

**Body** When using large quantities or where heavy contamination is likely, wear coveralls.

Respiratory

Where an inhalation risk exists, wear a Class P1 (Particulate) respirator. At high dust levels, wear a Powered Air Purifying Respirator (PAPR) with Class P3 (Particulate) filter or a Full-face Class P3

(Particulate) respirator.





# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

Appearance WHITE POWDER
Odour SLIGHT ODOUR
Flammability NON FLAMMABLE
Flash point NOT RELEVANT

**Boiling point** 741°C **Melting point** 741°C

Evaporation rate NOT AVAILABLE PH NOT AVAILABLE Vapour density NOT AVAILABLE

Relative density 2.367
Solubility (water) SOLUBLE
Vapour pressure NOT AVAILABLE

ChemAlert.

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# 9.1 Information on basic physical and chemical properties

Upper explosion limit **NOT RELEVANT** Lower explosion limit NOT RELEVANT Partition coefficient NOT AVAILABLE NOT AVAILABLE Autoignition temperature NOT AVAILABLE Decomposition temperature **NOT AVAILABLE** Viscosity **Explosive properties NOT AVAILABLE NOT AVAILABLE Oxidising properties Odour threshold NOT AVAILABLE** 

# 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

# 10.3 Possibility of hazardous reactions

Polymerization will not occur.

#### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), fluorine, alkaloidal and metallic salts.

### 10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

# 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity May be harmful if swallowed.

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
SODIUM TETRABORATE, ANHYDROUS	> 2,500 mg/kg (rat)	> 2,000 mg/kg (rabbit)	> 2,12 mg/l4hrs (rat)

SkinContact may result in irritation, redness, pain and rash.EyeContact may result in irritation, lacrimation, pain and redness.SensitisationNot classified as causing skin or respiratory sensitisation.MutagenicityInsufficient data available to classify as a mutagen.CarcinogenicityInsufficient data available to classify as a carcinogen.

Reproductive May damage fertility or the unborn child. Animal studies have shown that exposure to high concentrations of

borates may affect the developing fetus and the testes.

STOT - single Over exposure may result in mucous membrane irritation of the respiratory tract, coughing, breathing

**exposure** difficulties and nasal inflammation.

STOT - repeated No

exposure

Not classified as causing organ damage from repeated exposure.

**Aspiration** Not classified as causing aspiration.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No information provided.



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## 12.2 Persistence and degradability

Persistence is unlikely.

#### 12.3 Bioaccumulative potential

Bioaccumulation is unlikely.

### 12.4 Mobility in soil

No information provided.

#### 12.5 Other adverse effects

Boron is an essential micronutrient for healthy growth of plants, however, it can be harmful to boron sensitive plants at higher concentrations. The desired level of boron in saturated soil is between 0.15ppm and 0.5ppm. Care should be taken to minimise the amount of boron product released to the environment. Calcium may precipitate out some of the boron, but this process will not significantly reduce toxicity to plants.

# 13. DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods

Waste disposal Dispose of to an approved landfill or waste processing site. Contact the manufacturer/supplier for additional

information (if required).

**Legislation** Dispose of in accordance with relevant local legislation.

# 14. TRANSPORT INFORMATION

### NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

# 14.5 Environmental hazards

Not a Marine Pollutant.

### 14.6 Special precautions for user

Hazchem code None allocated.

# 15. REGULATORY INFORMATION

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the

Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals (GHS Revision 7).

Inventory listings AUSTRALIA: AllC (Australian Inventory of Industrial Chemicals)

All components are listed on AIIC, or are exempt.

# 16. OTHER INFORMATION

#### Additional information

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

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### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

#### HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide
IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

# Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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