SAFETY DATA SHEET

BORIC ACID | REVISION 6, DATE OCTOBER 2026

1. IDENTIFICATION

Product Name	**Boric Acid**
Other Names	Orthoboric acid
Uses	Industrial use; Agriculture; Antiseptic/antibacterial agent; Preservative; Lubricant; Pyrotechnics; Water treatment; Metallurgy; Glass and ceramics.
Chemical Family	No Data Available
Chemical Formula	H_3BO_3
Chemical Name	Boric acid (H_3BO_3)
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Green Pick Australia	6 Fernhill Lane Bayswater North VIC 3153 Australia	+61-426-571-061
Green Pick Iran	50 Khavaran Hwy, Industrial City Ivanaki, Taavoni 7 Tehran, Iran	+98-912-476-3248

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Australia – Westmead NSW	1800-251525 / 131126
Chemcall	Australia	1800-127406 / +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
National Poison Centre	Malaysia	+60-4-6536-999
Chemcall	New Zealand	0800-243622 / +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 / +1-703-527-3887

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust)	Schedule 5

Globally Harmonised System

Hazard Classification	Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Hazard Categories	Acute Toxicity (Oral) – Category 5 Serious Eye Damage/Irritation – Category 2B Toxic to Reproduction – Category 2
Pictograms	
Signal Word	**Warning**

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Hazard Statements

Code	Statement
H303	May be harmful if swallowed.
H320	Causes eye irritation.
NZ9.1	Designed for biocidal action.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.

Precautionary Statements

Type	Code	Statement
Prevention	**P201**	Obtain special instructions before use.
Prevention	**P280**	Wear protective gloves/protective clothing/eye protection/face protection and suitable respirator.
Response	**P308 + P313**	IF exposed or concerned: Get medical attention.
Response	**P305 + P351 + P338**	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Response	**P337 + P313**	If eye irritation persists: Get medical attention.
Response	**P301 + P312**	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
Storage	**P405**	Store locked up.
Disposal	**P501**	Dispose of contents/container in accordance with local/regional/national/international regulations.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code).

Safe Work Australia

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

Hazard Classification Hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Boric acid	H_3BO_3	10043-35-3	≤ 100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting. Call a Poison Centre or doctor/physician if large amounts (more than one teaspoon) are swallowed or if you feel unwell. For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention.

Eye IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.

Skin IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.

Most Important Symptoms and Effects Acute and delayed: May be harmful if swallowed. Causes eye irritation. Suspected of damaging fertility. Suspected of damaging the unborn child.

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Advice to Doctor	If exposed or concerned, get medical advice/attention. Treat symptomatically. Observation only is required for adult ingestion of less than 6 grams of boric acid. For ingestion in excess of 6 grams, maintain adequate kidney function and force fluids. Gastric lavage is recommended for symptomatic patients only. Haemodialysis should be reserved for massive acute ingestion or patients with renal failure. Boron analyses of urine or blood are only useful for documenting exposure and should not be used to evaluate severity of poisoning or to guide treatment.
Medical Conditions Aggravated by Exposure	No information available.

5. FIRE FIGHTING MEASURES

General Measures	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out. Dike fire-control water for later disposal.
Flammability Conditions	Non-combustible; material does not burn.
Extinguishing Media	If material is involved in a fire, use extinguishing media appropriate to surrounding fire conditions.
Fire and Explosion Hazard	Boric acid is not flammable, combustible or explosive. The product is itself a flame retardant.
Hazardous Products of Combustion	Fire or heat may produce irritating and/or toxic gases, including boron oxides.
Special Fire Fighting Instructions	Contain runoff from fire control or dilution water – runoff may cause pollution.
Personal Protective Equipment	Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ensure adequate ventilation. Do not touch or walk through spilled materials. Avoid dust formation. Avoid breathing dusts or mists and contact with eyes, skin and clothing.
Personal Precautionary Measures	Do not attempt to take action without suitable protective equipment (see SECTION 8).
Environmental Precautionary Measures	Prevent entry into drains and waterways. Notify authorities if product enters sewers or public waters.
Containment	Stop leak if safe to do so – prevent entry into waterways, drains or confined areas.
Clean Up Procedures	Mechanically recover the product and place it in suitable containers for later disposal (see SECTION 13).
Decontamination	No information available.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

7. HANDLING AND STORAGE

Handling	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Obtain special instructions before use – do not handle until all safety precautions have been read and understood. Avoid dust formation. Avoid breathing dusts or mists and contact with eyes, skin and clothing. Do not ingest. Wear protective gloves/protective clothing/eye protection/face protection and suitable respirator (see SECTION 8). Avoid exposure to heat/overheating.
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep containers tightly closed when not in use. Protect from moisture. Avoid exposure to heat. Keep away from food/feedstuffs and incompatible materials (see SECTION 10). Store locked up. Keep out of reach of children.
Container	Keep in the original container.
Incompatible Materials	Strong reducing agents, base metals (see SECTION 10).

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No specific exposure standards are available for this product. For dusts from solid substances without specific occupational exposure standards: – Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m³ (measured as inhalable dust). – New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m³; TWA = 3 mg/m³ (respirable dust).
Exposure Limits	No Data Available
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Respiratory Protection	Wear respiratory protection in case of inadequate ventilation or if an inhalation risk exists. Recommended: dust mask/particulate respirator (refer to AS/NZS 1715 & 1716).
Eye/Face Protection	Wear appropriate eye protection to avoid eye contact. Recommended: safety glasses with side-shields or goggles.
Hand Protection	Handle with gloves. Recommended: impervious gloves, e.g. nitrile rubber.
Skin/Body Protection	Wear appropriate personal protective clothing to avoid skin contact. Recommended: impervious clothing; overalls, safety shoes.
Special Hazards Precautions	No information available.
Work Hygienic Practices	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of the workday. Take off contaminated clothing and wash it before storage or reuse.
Biological Limits	No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystalline, powder, granular
Colour	White
Odour	Odourless
pH	5.1 (1 % solution, 20 °C)
Solubility	4.9 % in water (20 °C)
Melting Point	450 °C
Boiling Point	1,860 °C
Freezing Point	No Data Available
Vapour Pressure	0.000099 Pa (@ 25 °C)
Relative Vapour Density	No Data Available
Density	1,489 kg/m³
Specific Gravity	1.49
Bulk Density	No Data Available
Molecular Weight	61.83 g/mol
Flash Point	No Data Available
Auto Ignition Temperature	No Data Available
Decomposition Temperature	No Data Available
Corrosion Rate	No Data Available
Specific Heat	No Data Available
Partition Coefficient (n-octanol/water)	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Evaporation Rate	No Data Available

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Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Particle Size	No Data Available
Net Propellant Weight	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	Boric acid is not flammable, combustible or explosive.
Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.
Properties That May Initiate or Contribute to Fire Intensity	Non-combustible; material does not burn.
Reactions That Release Gases or Vapours	Fire or heat may produce irritating and/or toxic gases, including boron oxides.
Release of Invisible Flammable Vapours and Gases	Reaction with strong reducing agents, such as metal hydrides or alkali metals, will generate hydrogen gas which could create an explosive hazard.

10. STABILITY AND REACTIVITY

General Information	Boric acid reacts as a weak acid which may cause corrosion of base metals.
Chemical Stability	Stable under normal storage and handling conditions. When heated, water is lost forming metaboric acid (HBO_2); on further heating, the material is converted to boric oxide (B_2O_3).
Conditions to Avoid	Avoid dust formation. Avoid exposure to moisture (forms partial hydrate in moist air). Avoid exposure to heat/ overheating.
Materials to Avoid	Incompatible/reactive with strong reducing agents and base metals.
Hazardous Decomposition Products	Fire or heat may produce irritating and/or toxic gases, including boron oxides. Reaction with strong reducing agents, such as metal hydrides or alkali metals, will generate hydrogen gas which could create an explosive hazard.
Hazardous Polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information	Acute toxicity: May be harmful if swallowed. Skin corrosion/irritation: Non-irritant. Eye damage/irritation: Causes eye irritation. Respiratory/skin sensitisation: Not a skin sensitiser. Germ cell mutagenicity: Not considered to have mutagenic or genotoxic potential. Carcinogenicity: Not likely to be carcinogenic. Reproductive toxicity: Suspected of damaging fertility. Suspected of damaging the unborn child. Animal studies have demonstrated effects on testes, foetal weight loss and minor skeletal variations. However, (limited) epidemiological studies of workers and general populations exposed to boron show no reproductive or developmental effects [NICNAS]. STOT (single exposure): Respiratory effects following inhalation of boric acid dusts include nasal and eye irritation, throat irritation, coughing and breathlessness; these effects are most likely due to the physical exposure to dust; not considered a 'serious irritation to the respiratory tract' [NICNAS]. STOT (repeated exposure): The main target organ for boron toxicity is the testes, leading to reproductive and developmental adverse effects. Adverse haematological effects have also been noted. Aspiration toxicity: No information available.
Likely Routes of Exposure	Ingestion: Ingestion (or absorption) may cause nausea, vomiting, diarrhoea, abdominal cramps; central nervous system (CNS) depression, ataxia and convulsions. Eye contact: May cause eye irritation due to physical exposure to dust. Skin contact: Contact with dust can cause mechanical irritation or drying of the skin. Inhalation: May cause irritation.
Ingestion (Oral)	Acute toxicity (oral): LD50, Rat (male): > 2,600 mg/kg bw [OECD Guideline 401; Supplier's SDS].

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Dermal	Acute toxicity (dermal): LD50, Rabbit: > 2,000 mg/kg bw.
Inhalation	Acute toxicity (inhalation): LC50, Rat: > 2 mg/L (4 h) [dust].
Chronic Effects	Suspected of damaging fertility. Suspected of damaging the unborn child.
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	Aquatic toxicity: – LC50, Fish (*Pimephales promelas*, fathead minnow): 79.7 mg B/L or 456 mg boric acid/L (96 h). – EC50, Invertebrates (*Daphnia magna*): 133 mg B/L or 760 mg boric acid/L (48 h). – EC50, Algae (*Pseudokirchneriella subcapitata*) biomass: 40 mg B/L or 229 mg boric acid/L (72 h).
Persistence/Degradability	Boron is naturally occurring and ubiquitous in the environment. Boric acid decomposes in the environment to natural borate.
Bioaccumulation Potential	Not significantly bioaccumulative.
Mobility	The product is soluble in water and is leachable through normal soil.
Environmental Fate	Boron is an essential micronutrient for healthy growth of plants; however, it can be harmful to boron-sensitive plants in higher quantities. Care should be taken to minimise the amount of borate product released to the environment. Prevent entry into drains and waterways.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of contents/container via a licensed disposal company and in accordance with local/regional/national regulations.
Special Precautions for Land Fill	Small quantities of boric acid can usually be disposed of at landfill sites. Tonnage quantities of product are not recommended to be sent to landfills.

14. TRANSPORT INFORMATION

Dangerous Goods Classification NOT Dangerous Goods. Not regulated for transport by land, sea or air under the ADG Code, ADR, NZS 5433, US DOT, IMDG Code or IATA DGR.

	Land – Australia (ADG Code)	Land – Malaysia (ADR Code)	Land – New Zealand (NZS 5433)	Land – USA (US DOT)	Sea (IMDG Code)	Air (IATA DGR)
Proper Shipping Name	Boric Acid	Boric Acid	Boric Acid	Boric Acid	Boric Acid	Boric Acid
UN Number	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available
Class	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available
Subsidiary Risk(s)	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available
Pack Group	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available
Hazchem	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available
Special Provision	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available
EMS	—	—	—	—	No Data Available	—
Marine Pollutant	—	—	—	—	No	—
Comments	Non-dangerous goods: not regulated for LAND transport	Non-dangerous goods: not regulated for LAND transport	Non-dangerous goods: not regulated for LAND transport	Non-dangerous goods: not regulated for LAND transport	Non-dangerous goods: not regulated for SEA transport	Non-dangerous goods: not regulated for AIR transport

15. REGULATORY INFORMATION

Poisons Schedule (Aust)	Schedule 5

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Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code	HSR002995

National/Regional Inventories

Inventory	Status
Australia (AIIC)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Determined
China (IECSC)	Listed
Europe (EINECS)	233-139-2
Europe (REACh)	Registered
Japan (ENCS/METI)	Listed
Korea (KECI)	Listed
Malaysia (List of Classified Substances)	Not Determined
Mexico (INSQ)	Not Determined
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Listed
Taiwan (TCSI)	Listed
USA (TSCA)	Listed

16. OTHER INFORMATION

Related Product Codes

BOACID1000, BOACID1001, BOACID1002, BOACID1003, BOACID1004, BOACID1006, BOACID1007, BOACID1008, BOACID1009, BOACID1100, BOACID1200, BOACID1201, BOACID1202, BOACID1203, BOACID1204, BOACID1205, BOACID1206, BOACID1207, BOACID1300, BOACID1301, BOACID1400, BOACID1500, BOACID1501, BOACID1502, BOACID1503, BOACID1504, BOACID1505, BOACID1506, BOACID1600, BOACID1601, BOACID1602, BOACID1603, BOACID1604, BOACID1700, BOACID1701, BOACID1702, BOACID1800, BOACID1801, BOACID1802, BOACID1803, BOACID1804, BOACID1805, BOACID1806, BOACID1807, BOACID1808, BOACID1809, BOACID1810, BOACID1811, BOACID1812, BOACID1813, BOACID1900, BOACID1901, BOACID2000, BOACID2001, BOACID2002, BOACID2003, BOACID2007, BOACID2017, BOACID2100, BOACID2200, BOACID2300, BOACID2400, BOACID2401, BOACID2500, BOACID2600, BOACID2700, BOACID2800, BOACID2900, BOACID3000, BOACID3001, BOACID3200, BOACID3300, BOACID3500, BOACID3700, BOACID3701, BOACID3800, BOACID4000, BOACID4001, BOACID4002, BOACID4003, BOACID4100, BOACID4200, BOACID4400, BOACID4500, BOACID4501, BOACID4800, BOACID4900, BOACID5000, BOACID5100, BOACID5205, BOACID5500, BOACID6000, BOACID6100, BOACID6105, BOACID6500, BOACID6900, BOACID7000, BOACID7001, BOACID7100, BOACID7200, BOACID7300, BOACID7301, BOACID7302, BOACID7303, BOACID7304, BOACID7305, BOACID7306, BOACID7307, BOACID7308, BOACID7309, BOACID7320, BOACID7330, BOACID7399, BOACID7400, BOACID7401, BOACID7500, BOACID7501, BOACID7502, BOACID7503, BOACID7505, BOACID7530, BOACID7533, BOACID7565, BOACID7600, BOACID7601, BOACID7602, BOACID7620, BOACID7622, BOACID7630, BOACID7650, BOACID7700, BOACID7701, BOACID7702, BOACID7703, BOACID7704, BOACID7705, BOACID7706, BOACID7707, BOACID7708, BOACID7709, BOACID7710, BOACID7711, BOACID7712, BOACID7713, BOACID7714, BOACID7715, BOACID7716, BOACID7717, BOACID7718, BOACID7719, BOACID7720, BOACID7721, BOACID7722, BOACID7723, BOACID7724, BOACID7800, BOACID8000, BOACID8001, BOACID8002, BOACID8003, BOACID8004, BOACID8500, BOACID8800, BOACID9000, BOACID9001, BOACID9020, BOACID9100, BOACID9200, BOACID9201, BOACID9300, BOACID9301, BOACID9400, BOACID9500, BOACID9600, BOACID9610, BOACID9700, BOACID9701, BOACID9800, BOACID9805, BOACID9807, BOACID9820, BOACID9900, BOACID9901, BOACID9998, BOACID9999

<	Less Than	mg/24H	Milligrams per 24 Hours
>	Greater Than	mg/kg	Milligrams per Kilogram
≤	Less Than or Equal To	mg/m³	Milligrams per Cubic Metre
AICS	Australian Inventory of Chemical Substances	Miscible	Liquids form one homogeneous liquid phase regardless of the amount of either component present
AIIC	Australian Inventory of Industrial Chemicals	mm	Millimetre

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atm	Atmosphere	mmH_2O	Millimetres of Water
CAS	Chemical Abstracts Service (Registry Number)	mPa.s	Millipascal Seconds
cm^2	Square Centimetres	N/A	Not Applicable
CO_2	Carbon Dioxide	NICNAS	National Industrial Chemicals Notification and Assessment Scheme
COD	Chemical Oxygen Demand	NIOSH	National Institute for Occupational Safety and Health
°C	Degrees Celsius	NOHSC	National Occupational Health and Safety Commission
°F	Degrees Fahrenheit	OECD	Organisation for Economic Co-operation and Development
EPA (New Zealand)	Environmental Protection Authority of New Zealand	oz	Ounce
g	Grams	Pa	Pascal
g/cm^3	Grams per Cubic Centimetre	PEL	Permissible Exposure Limit
g/L	Grams per Litre	ppb	Parts per Billion
GHS	Globally Harmonised System of Classification and Labelling of Chemicals	ppm	Parts per Million
HSNO	Hazardous Substances and New Organisms	ppm/2h	Parts per Million per 2 Hours
IDLH	Immediately Dangerous to Life and Health	ppm/6h	Parts per Million per 6 Hours
Immiscible	Liquids are insoluble in each other	psi	Pounds per Square Inch
inHg	Inch of Mercury	R	Rankine
inH_2O	Inch of Water	RCP	Reciprocal Calculation Procedure
K	Kelvin	STEL	Short Term Exposure Limit
kg	Kilogram	STOT	Specific Target Organ Toxicity
kg/m^3	Kilograms per Cubic Metre	TLV	Threshold Limit Value
lb	Pound	tne	Tonne
LC50	Lethal Concentration, 50% – the concentration of a material in air which causes the death of 50% of a group of test animals, usually over 1 or 4 hours	TWA	Time Weighted Average
LD50	Lethal Dose, 50% – the amount of a material, given all at once, which causes the death of 50% of a group of test animals	µg/24H	Micrograms per 24 Hours
L	Litre	UN	United Nations
m^3	Cubic Metre	WES	Workplace Exposure Standard
mbar	Millibar	wt	Weight
mg	Milligram		

Revision	6
Revision Date	October 2026
Supersedes	Version 1.01, April 2026 (Revision 5)
Reason for Issue	Updated SDS – reformatted to current Green Pick template; Malaysian office removed; revision details updated.

This Safety Data Sheet has been prepared using available literature and supplier data, together with the specifications provided by Green Pick Australia for this product. To the best of our knowledge the information contained herein is accurate as of the date of issue; it is provided without warranty, expressed or implied. It is the responsibility of the user to determine the suitability of this information for their particular use and to comply with all applicable local, national and international regulations.

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