

## Safety Data Sheet

Date of Issue: 29 March 2017

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### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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**PRODUCT NAME:**

**Ecocare pH Stabiliser**

**RECOMMENDED USE:**

Water Treatment

**SUPPLIER DETAILS:**

Company: Insight Environmental  
Address: 40 Hargreaves Street BELMONT WA 6104 Australia  
Telephone Number: (+61-8) 9474 8400  
Facsimile Number: (+61-8) 9477 3565  
E-mail: enquiries@insightenvironmental.com.au  
Emergency Telephone No: (+61-8) 9474 8400 Monday to Friday 7.00 am to 5.00 pm

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### SECTION 2: HAZARDS IDENTIFICATION

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ADG Code Non-Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code).  
ASCC Hazard Classification NOT Hazardous according to the criteria of ASCC [NOHSC:1008(2004)]  
Categories  
Risk Phrases  
Safety Phrases  
HSNO Hazard Classification  
Poisons Schedule (Aust) No Data Available

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### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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Active Content: Sodium Bicarbonate, >=95.00 % (CAS No. 144-55-8)  
Others: Non-hazardous components

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### SECTION 4: FIRST AID MEASURES

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*Description of necessary measures according to routes of exposure.*

Swallowed Rinse mouth with water. Give water to drink. Do NOT induce vomiting. If symptoms persist, seek medical attention.

Eyes Immediately flush eyes with plenty of water holding eyelids open, also under the eyelids. If irritation persists, seek medical attention.

Skin	Remove contaminated clothing. Wash affected area with soap and plenty of water. If irritation persists, seek medical attention.
Inhaled	Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, call a physician
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient.
Medical Conditions Aggravated by Exposure	No information available on medical conditions which are aggravated from exposure to this product.

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## SECTION 5: FIRE FIGHTING MEASURES

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General Measures	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk
Flammability conditions	Product is a non-flammable solid.
Extinguishing media	In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions.
Fire and exposure hazard	Non-combustible solid
Hazardous Products of Combustion	None
Special fire-fighting instructions	Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).
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

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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General Response Procedure	Avoid accidents, clean up immediately. Slippery when spilt. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment. Avoid dust formation.
Clean up Procedures	Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Sweep up to prevent slipping hazard. Transfer to a suitable, labelled waste container and dispose of promptly.
Containment	Stop leak if safe to do so. Isolate the danger area.
Decontamination	Avoid dust formation.
Environmental Precautionary	Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your

Measures	local Waste Management. Prevent any mixture with an acid into the sewer/drain (gas formations).
Evacuation Criteria	Evacuate all unnecessary personnel.
Personal Precautionary Measures	Personnel involved in the clean-up should wear full protective clothing as listed in section 8.

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## SECTION 7: HANDLING AND STORAGE

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Handling	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes.
Storage	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Keep away from Incompatible products. Keep at temperature not exceeding: 50 °C (122 °F). This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.
Container	Store in original packaging as approved by manufacturer. Packaging material: Paper + PE, Polyethylene, Polypropylene, Woven plastic material + PE.

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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General	<p>No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m<sup>3</sup> (for inspirable dust) and 3mg/m<sup>3</sup> (for respirable dust).</p> <p>NOTE: 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. These 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 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.</p>
Exposure Limits	No data available
Biological Limits	No information available on biological limit values for this product.
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.
Personal Protective Equipment	<p>RESPIRATOR: Respiratory protection that conforms to international/national standards (AS1715/1716).</p> <p>EYES: Safety goggles (AS1336/1337).</p> <p>HANDS: Wear suitable gloves (AS2161).</p> <p>CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).</p>

Work Hygienic Practices

Do not eat, drink or smoke while using this product. Wash hands before breaks and end of workday. Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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Physical State	Solid
Appearance	Crystalline Powder
Odour	Odourless
Colour	White
pH	8.4 (Water Concentration 8.4g/L at 25 °C) 8.6 (Water Concentration: 52g/L at 25 °C)
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling/Melting Point	No Data Available
Solubility	Soluble in Water; Slightly soluble in alcohol
Freezing Point	No Data Available
Specific Gravity	No Data Available
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	0.5-1.3 kg/dm <sup>3</sup>
Corrosion Rate	No Data Available
Decomposition Temperature	>50 °C
Density	2.21 kg/dm <sup>3</sup> – 2.23 kg/dm <sup>3</sup>
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	Solubility(ies) <ul style="list-style-type: none"><li>● 69 g/L in Water at 0 °C</li><li>● 93 g/L in Water at 20 °C</li><li>● 165 g/L in Water at 60 °C</li><li>● Slightly soluble in Alcohol</li></ul> pKa1= 6.33
Potential for dust explosion	No Data Available
Fast or Intensely Burning Characteristics	No Data Available
Flame Propagation or Burning Rate of Solid Materials	No Data Available
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No Data Available
Properties that May Initiate or Contribute to Fire Intensity	No Data Available
Reactions That Release Gases or Vapours	No Data Available
Release of Invisible Flammable Vapours and Gases	No Data Available

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**SECTION 10: STABILITY AND REACTIVITY**

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Chemical Stability	Stable under recommended storage conditions. Keep at temperature not exceeding 50 °C.
Conditions to Avoid	Exposure to moisture, do not overheat to avoid thermal decomposition
Materials to Avoid	Incompatible with acids.
Hazardous Decomposition Products	No
Hazardous Polymerisation	No Data Available

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**SECTION 11: TOXICOLOGY INFORMATION**

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General Information	Acute Oral toxicity LD <sub>50</sub> Rat : > 4000mg/kg. Acute Inhalation toxicity LC <sub>50</sub> Rat : > 4.74mg/L No skin Irritation in Rabbits No eye irritation in Rabbits Genetic Toxicity In Vitro: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Oral route (gavage), 10 days, rabbit, 330mg/kg, Did not show teratogenic effects in animal experiments. Testing on rats did not show any carcinogenic effects.
Eye Irritant Ingestion	Dust contact with the eyes can lead to mechanical irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Inhalation	In case of higher concentration: slight irritation
Skin Irritant	Repeated or prolonged exposure: Contact with dust can cause mechanical irritation or drying of the skin.
Carcinogen Category	0

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**SECTION 12: ECOLOGICAL INFORMATION**

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Ecotoxicity	Acute Toxicity Fishes, Oncorhynchus mykiss, LC <sub>50</sub> : 7700 mg/L/96 h Fishes, Oncorhynchus mykiss, NOEC: 2300 mg/L/96 h Fishes, Lepomis macrochirus, LC <sub>50</sub> : 7100 mg/L/96 h Fishes, Lepomis macrochirus, NOEC: 5200 mg/L/96 h Crustaceans, Daphnia magna, EC <sub>50</sub> : 4100 mg/L/48 h Crustaceans, Daphnia magna, NOEC: 3100 mg/L/48 h  Chronic Toxicity Crustaceans, Daphnia magna, NOEC: > 576 mg/L/21 d
Persistence/ Degradability	Abiotic degradation: Water, hydrolyses Result: acid/base equilibrium as a function of pH. Degradation Products: Carbonic acid/bicarbonate/carbonate Biodegradation Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.
Mobility	High mobility in water and soil/sediments.
Environmental Fate	Avoid contaminating waterways, drains and sewers.
Bioaccumulation Potential	Does not bioaccumulate
Environmental Impact	No data Available

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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General Information	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
Special Precautions for Landfill	Contact a specialist disposal company or the local waste regulator for advice. Where possible recycling is preferred to disposal or incineration. Clean container with water. Dispose of rinse water in accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities

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**SECTION 14: TRANSPORT INFORMATION**

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ADG Code Non-Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code).

*Air*

IATA

Proper Shipping Name	SODIUM BICARBONATE (Not restricted according to IATA DGR)
Class	No data available
Subsidiary Risk(s)	No data available
UN Number	No data available
Hazchem	No data available
Pack Group	No data available
Special Provision	No data available
Comments	Not restricted according to IATA DGR

*Land*

Australia: ADG

Proper Shipping Name	SODIUM BICARBONATE
Class	No data available
Subsidiary Risk(s)	No data available
EPG	No data available
UN Number	No data available
Hazchem	No data available
Pack Group	No data available
Special Provision	No data available

*Sea*

IMDG

Proper Shipping Name	SODIUM BICARBONATE
Class	No data available
Subsidiary Risk(s)	No data available
UN Number	No data available
Hazchem	No data available
Pack Group	No data available
Special Provision	No data available
EMS	No data available
Marine Pollutant	No

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**SECTION 15: REGULATORY INFORMATION**

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General Information	No data available
Poisons Schedule (Aust)	No data available

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**SECTION 16: OTHER INFORMATION**

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Last Revision Date: 29 March 2017

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