

SAFETY DATA SHEET

AQUASONIC Pty. Ltd.

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CARBONATE HARDNESS GENERATOR

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name	CARBONATE HARDNESS GENERATOR
Product use	Ornamental aquariums and aquaculture A combination of weak bases to gently raise the pH of aquarium/aquaculture water in ornamental aquaria and aquaculture
Supplier details	Aquasonic Pty Ltd (ABN 70 001 427 256) 14 Commerce Street Wauchope NSW 2446 Australia Tel: +61 2 6586 4933 Fax: +61 2 6586 4944
Emergency contact	Poisons Information Centre Tel: 1800 039 008
Product size	250g jar, 1kg jar, 10kg bucket, 20kg bucket, 20kg box
Product code	TKP604, TKP605, TKP606, TKP607, IH-TKP607S

2. HAZARDS IDENTIFICATION

Hazard classification	None
Pictogram (GHS)	None
Signal word	Not Hazardous
Hazard statements	Not hazardous
Precautionary statements	None

3. Composition/information on ingredients

Chemical composition

Potassium Hydrogen Carbonate | CAS #: 298-14-6 | WT: Proprietary concentration

Sodium Bicarbonate | CAS #: 144-55-8 | WT: Proprietary concentration

4. FIRST-AID MEASURES

Swallowed	Rinse mouth with water. Give plenty of water to drink. Seek medical attention if you feel unwell
Eye	Immediately flush eyes with plenty of water for 15 minutes, holding eyelids open. In all cases of eye contamination, it is a sensible precaution to seek medical advice
Skin	Removed contaminated clothing. Wash affected area with plenty of soap and water for at least 15 minutes. Seek medical attention if irritation persists. Wash clothing before reuse
Inhaled	Remove victim from exposure to fresh air. If not breathing, apply CPR. If breathing is difficult, give oxygen. Seek medical attention

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5. FIRE-FIGHTING MEASURES

Flammability	Not flammable
Extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Decomposition products	In case of fire may produce toxic fumes of carbon dioxide and carbon monoxide
Flash point	No data available
Explosion limits	L.E.L. No data available U.E.L. No data available
Personal protective	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and equipment protective firefighting clothing (including helmets, boots and gloves). Clear fire area of all non-emergency personnel. Eliminate ignition source. Move fire exposed containers from fire area if it can be done without risk. Do not allow firefighting water to reach waterways, drains or sewers. Store firefighting water for treatment

6. ACCIDENTAL RELEASE MEASURES

General response procedure	Keep unnecessary people away from spill. Personnel involved in clean up should wear full protective clothing as outlined in section 8. Eliminate sources of ignition. Stop leak/spillage if safe to do so. Small spills may be flushed to drains/sewers. Isolate area if large spill by sand bagging around edges and covering with plastic sheeting
Clean up procedure	Contain and sweep/shovel up spills. Transfer waste to a suitable, labelled chemical waste container and dispose of promptly as hazardous waste. Small spills may be flushed to drains or sewers
Personal precautions, protective equipment and emergency procedures	Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.
Environmental precautions	No special environmental precautions required.
Methods and materials for containment and cleaning up	Sweep up and shovel. Keep in suitable, closed containers for disposal.6.4Reference to other sectionsFor disposal see section 13.

7. HANDLING AND STORAGE

Handling	Observe personal hygiene practices. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Do not inhale vapours. Use in well-ventilated area
Storage	Store in original packaging in a cool, dry area. Keep containers tightly closed when not in use. Protect from physical damage. Store away from incompatible materials as listed in section 8. Do not allow product to come into contact with acids or water. Do not store with acids. Keep at room temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

General	No data available
Exposure limits	Contains no substances with occupational exposure limit values.
Biological limits	No data available
Engineering measures	Prevention of spillage into the work environment is recommended
Personal protective	EYES: Safety glasses with side shields, chemical goggles or face shield equipment HANDS: Wear impervious gloves (Nitrile rubber recommended)

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	RESPIRATORY:	Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government.
	CLOTHING:	Long-sleeved impervious protective clothing advised
Work hygienic practices		Observe personal hygiene and personal protection practices. Wash hands thoroughly after handling product. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Wash contaminated clothing before storage, or before reuse
Control parameters		Occupational Exposure Limits Contains no substances with occupational exposure limit values.
Exposure controls		Appropriate engineering controls. General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

	Potassium Hydrogen Carbonate (298-14-6)	Sodium Bicarbonate (144-55-8)
Physical state	Solid, granular	No data available
Appearance	White crystalline powder	No data available
Colour	White	No data available
Odour	Practically odourless	No data available
pH	~8.6 @ 5% solution mixed with purified water	No data available
Boiling point	No data available	No data available
Melting point	>1000°C (decomposes before burning)	300°C
Freezing point	No data available	No data available
Flash Point	No data available	No data available
Flammability or explosive limits	No data available	No data available
Solubility	Soluble in water	Soluble in water
Additional characteristics	None	No data available

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions of use, storage and temperature	
Conditions to avoid	No data available	
Materials to avoid	298-14-6/144-55-8	Avoid strong acidic/basic materials and oxidising agents
Hazardous decomposition products	298-14-6	May produce toxic fumes of carbon dioxide and carbon monoxide in high heat fires Hazardous decomposition products formed under fire conditions.- Carbon oxides, Potassium oxides Other decomposition products - No data available
	144-55-8	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sodium oxides Other decomposition products - No data available
Hazardous polymerisation	Does not occur	

11. TOXICOLOGICAL INFORMATION

General	None
Inhaled	May cause minor respiratory irritation
Ingestion	May raise alkalinity levels in body if consumed in large quantities
Skin contact	May give rise to skin irritation, localised dermatitis in individuals more susceptible

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Eye	May cause eye irritation
Chronic	No data available
Acute toxicity	No data available
Carcinogen category	No data available
Mutagenicity	No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not likely even in the event of large spillage.
Toxicity	Toxicity to fish; LC50 - Oncorhynchus mykiss (rainbow trout) - 1,300mg/l - 96h Toxicity to daphnia and other aquatic invertebrates; EC50 - Daphnia (water flea)-630 mg/l
Persistence/degradability	Low. Is soluble in water. May cause localised rise in alkalinity and pH levels, no long term effects are likely
Mobility	Given solubility in water, is likely mobile in waterways
Environmental fate	May cause localised rise in alkalinity and pH levels, no long term effects are likely
Bioaccumulation potential	None to be expected (Log P (o/w) <1)
Environmental impact	May cause localised rise in alkalinity and pH levels, no long term effects are likely

13. DISPOSAL CONSIDERATIONS

General information	Dispose of in accordance with local, state and federal regulations. All empty packaging should be disposed of in accordance with local, state and federal regulations
Special precautions for land fill	Contact a specialist disposal company, or the local waste regulator for advice

14. TRANSPORT INFORMATION

Marine pollutant	No
HAZCHEM	Not applicable
Land transport	Not regulated for transport of dangerous goods
Air transport	Not regulated for transport of dangerous goods
Sea transport	Not regulated for transport of dangerous goods
Proper shipping name	Aquasonic Carbonate Hardness Generator
U.N number	Not classified
Dangerous goods class	Not regulated for transport of dangerous goods
Packaging method code	No data available
Packing group number	III
IERG number	No data available
Special precautions for user	Refer sections 7 and 8

15. REGULATORY INFORMATION

Australia inventory (AICS)	Listed
ADG	Not regulated for transport of dangerous goods

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16. OTHER INFORMATION

Key/legend	
<	Less than
>	Greater than
ADG	Australian Code for the Transport of Dangerous Goods by Road & Rail
AISC	Australian Inventory of Chemical Substances
g	Gram
g/L	Grams per litre
H₂O	Chemical formula for water
Kg	Kilogram
L	Litre of liquid
LC50	Lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% of a group of test animals
LD50	Lethal dose. LD50 is the amount of material, given all at once, which causes the death of 50% of a group of test animals
L.E.L	Lower explosion limit
mg/L	Milligram per litre of liquid
TWA	Time weighted average
U.E.L.	Upper explosion Limit

Notice to reader

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