

WATERCO

water, the liquid of life

SAFETY DATA SHEET

AQUA PURE SPA SHOCK 1KG

Infosafe No.: LPY55
Issued Date: 01/09/2014
Issued by: WATERCO LIMITED

1. IDENTIFICATION

GHS Product Identifier

AQUA PURE SPA SHOCK 1KG

Product Code

384028

Company Name

WATERCO LIMITED

Address

36 South Street Rydalmere
NSW 2116 Australia

Telephone/Fax Number

Tel: 61 2 9898 8600

Emergency phone number

Australia 1800 638 556 land line for transport by air and sea +61 438 465960/ New Zealand 0800 154 666 land line for transport by air and sea +64 962 390 85

Recommended use of the chemical and restrictions on use

Non-chlorine oxidiser for swimming pools and spa.

Other Names

Name	Product Code
AQUA PURE SPA SHOCK 2KG	384032

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Acute Toxicity - Oral: Category 4

Skin Corrosion/Irritation: Category 1B

Eye Damage/Irritation: Category 1

Sensitization - Respiratory: Category 1

Sensitization - Skin: Category 1

STOT Single Exposure Category 3 (respiratory tract irritation)

Signal Word (s)

DANGER

Hazard Statement (s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

Precautionary Statement (s)

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

Pictogram (s)

Corrosion, Exclamation mark, Health hazard



Precautionary statement – Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

P285 In case of inadequate ventilation wear respiratory protection.

Precautionary statement – Response

INHALATION

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor/physician.

INGESTION

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P310 Immediately call a POISON CENTER or doctor/physician.

SKIN

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before reuse.

P310 Immediately call a POISON CENTER or doctor/physician.

EYE

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

Precautionary statement – Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Precautionary statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

Supplemental Information

The information under this heading is not mandatory under WHS Regulations. It is provided as information on other GHS hazard classes and categories and/or environmental hazards that are outside the scope of the WHS Regulations.

GHS classification: Hazardous to the Aquatic Environment - Acute Hazard: Category 3; Hazard statement: H402; Precautionary statement: P273.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Potassium peroxomonosulphate triple salt	70693-62-8	80-<100 %
Potassium Bisulphate	7646-93-7	0-<10 %
Potassium Persulphate	7727-21-1	0-<10 %
Ingredients Determined Not To Be Hazardous		Balance

4. FIRST-AID MEASURES

Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin

Remove all contaminated clothing immediately. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before re-use or discard. Seek immediate medical attention.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use appropriate fire extinguisher for surrounding environment.

Unsuitable Extinguishing Media

Carbon dioxide

Hazards from Combustion Products

Under fire conditions this product can emit oxygen.

Specific Hazards Arising From The Chemical

Does not burn

Hazchem Code

2X

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed containers.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Remove all sources of ignition. Evacuate all unprotected personnel. Do not allow contact with skin and eyes. Do not breathe dust. It is essential to wear self-contained breathing apparatus (S.C.B.A) and full personal protective equipment and clothing to prevent exposure. Avoid exposure to spillage by sweeping up material avoiding dust generation - dampen spilled material with water if suitable to avoid airborne dust, OR where possible use dustless methods such as vacuum to collect the material; then transfer material in to suitable labelled containers for subsequent recycling or disposal. Use absorbent paper dampened with water to pick up remaining material. Wash surfaces well with soap and water. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Corrosive solid. Attacks skin and eyes. Causes burns. Avoid breathing in dust. Wear suitable protective clothing, gloves and eye/face protection when mixing and using. Use in designated areas with adequate ventilation. Keep containers tightly closed. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

Conditions for safe storage, including any incompatibilities

Corrosive. Store in a cool dry well-ventilated area. Store away from oxidising agents and bases/acids. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Store in original packages as approved by manufacturer. Ensure that storage conditions comply with applicable local and national regulations. For information on the design of the storeroom, reference should be made to AS 3780-2008 The storage and handling of corrosive substances.

Storage Temperatures

Avoid temperatures: >50°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Safe Work, Australia Exposure Standards:

Substance	TWA	mg/m ³
Potassium persulphate	0.1	(Peak limitation)
Dust not otherwise specified	10	(inspirable dust)

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

Peak Limitation: A ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing solid/dust away from workers' breathing zone.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with full face shield should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

White granule

Colour

White

Odour

Odourless

Decomposition Temperature

Not available

Melting Point

Decomposes before melting

Boiling Point

Not applicable

Solubility in Water

298g/l(20°C)

Solubility in Organic Solvents

Not available

Specific Gravity

1.1 - 1.4 (20°C)

pH

2.1(30g/l, 20°C)

Vapour Pressure

<1hPa

Vapour Density (Air=1)

Not applicable

Evaporation Rate

Not applicable

Odour Threshold

Not available

Viscosity

Not available

Partition Coefficient: n-octanol/water

Not available

Density

Bulk density: 1,100 - 1,400kg/m³

Flash Point

Not applicable

Flammability

The product itself does not burn, but it is slightly oxidising (active oxygen content approximately 2%).

Auto-Ignition Temperature

Not applicable

Flammable Limits - Lower

Not applicable

Flammable Limits - Upper

Not applicable

Explosion Properties

Not explosive

Oxidising Properties

Slightly oxidising

10. STABILITY AND REACTIVITY

Reactivity

Reacts with incompatible materials.

Chemical Stability

Stable under normal conditions of handling and storage.

Conditions to Avoid

Heat.

Incompatible materials

Halogenated compounds, Cyanides, Heavy metal salts

Hazardous Decomposition Products

Can release oxygen when heated, intensifying a fire.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

The available acute toxicity data for ingredients is given below.

Acute Toxicity - Oral

Potassium peroxomonosulphate triple salt

LD50(rat) : 200-2,000 mg/kg

Potassium persulphate

LD50(rat) : 802 mg/kg

Potassium bisulphate

LD50(rat) : 2,340 mg/kg

Acute Toxicity - Inhalation

Potassium peroxomonosulphate triple salt

LC50 (rat): >5mg/L/4h

Acute Toxicity - Dermal

Potassium peroxomonosulphate triple salt

LD50 (rabbit): >11,000 mg/kg

Potassium persulphate

LD50 (rabbit): >10,000 mg/kg

Ingestion

Harmful if swallowed. Ingestion of this product will cause nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the mouth, throat and stomach. Can cause stomach damage, ulceration and gastrointestinal disturbance.

Inhalation

Dust or mists generated will cause severe irritation with possible burns to the mucous membrane and upper airways. Symptoms may include coughing, lesions of the nasal septum, severe pain and may lead to permanent tissue scarring. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin

Causes burns. Corrosive to the skin. Skin contact can cause redness, itching, irritation, swelling, blistering, severe lesions (scarring), severe pain and chemical burns with resultant tissue destruction. May cause an allergic skin reaction.

Skin irritation, rabbit: Causes burns

Eye

Causes eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.

Eye irritation, rabbit: Severe eye irritation

Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

Potassium peroxomonosulphate triple salt

Did not cause genetic damage in cultured bacterial cells. Tests on mammalian cell cultures showed mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.

Potassium persulphate

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Not considered to be a carcinogenic hazard.

Reproductive Toxicity

Not considered to be toxic to reproduction.

Potassium peroxomonosulphate triple salt

Animal testing showed effects on embryo-foetal development at levels equal to or above those causing maternal toxicity.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Not expected to cause toxicity to a specific target organ by repeated exposure.

Aspiration Hazard

Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life. The available ecological data for ingredients is given below

Persistence and degradability

Not available

Mobility

Not available

Bioaccumulative Potential

Not available

Other Adverse Effects

Not available

Environmental Protection

Do not allow product to enter drains, waterways or sewers.

Acute Toxicity - Fish

Potassium peroxomonosulphate triple salt

LC50(Oncorhynchus mykiss, rainbow trout): 53 mg/l/96h

Acute Toxicity - Daphnia

Potassium peroxomonosulphate triple salt

EC50: 3.5mg/l/48h

Potassium persulphate

LC50 (Daphnia magna, water flea): 92mg/l/48h
Potassium bisulphate (based on data from similar structures)
LC50 (Daphnia magna, water flea): >190mg/l/48h

Acute Toxicity - Algae

Potassium peroxomonosulphate triple salt
ErC50: >1mg/l/72h

13. DISPOSAL CONSIDERATIONS

Disposal considerations

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information

Road and Rail:

This material is classified as Dangerous Goods Class 8 Corrosive Substances according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).

Class 8 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Division 4.3, Dangerous When Wet Substances
- Division 5.1, Oxidising substances
- Division 5.2, Organic Peroxides
- Class 6, Toxic or Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
- Class 7, Radioactive Substances

and are incompatible with food and food packaging in any quantity.

Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis. Packing Group I and II acids and alkalis should be considered as strong.

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN-No: 3260

Proper Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Contains Potassium peroxymonosulphate triple salt)

Class: 8

Packaging Group: II

EMS No.: F-A, S-B

Special provision(s): 274

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN-No: 3260

Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Contains Potassium peroxymonosulphate triple salt)

Class: 8

Packaging Group: II

Label: Corrosive

Packaging Instructions (passenger & cargo): 859

Packaging Instructions (cargo only): 863

Special provision(s): A3 A803

U.N. Number

3260

UN proper shipping name

CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.(Contains Potassium peroxymonosulphate triple salt)

Transport hazard class(es)

8

Packing Group

II

Hazchem Code

2X

IERG Number

37

IMDG Marine pollutant

No

15. REGULATORY INFORMATION

Regulatory information

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

S6

Australia (AICS)

All components of this product are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS Reviewed: September 2014

Supersedes: May 2009

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

Contact Person/Point

Emergency contact:

Australia 1800 638 556 landline +61 438 465 960

New Zealand 0800 154 666 landline +64 962 390 85

END OF SDS

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