

**1. IDENTIFICATION**

Product Name: HY-CLOR SPA LOW PH DOWN 500G
Chemical Name: Sodium Bisulphate
Synonyms: Sodium Hydrogen Sulphate; Sodium Acid Sulphate; sulphuric acid, monosodium sulphate.
Product Code: HYC2SPAPHD03
Recommended Use of the Chemical and Restrictions on Use: Used to lower pH levels in pools
Supplier: HY-CLOR AUSTRALIA PTY LIMITED
Street Address: 178 Power Street
Glendenning NSW 2761
Telephone Number: (02) 8805 2400
After Hours Contact: 0404 859 515
Facsimile: (02) 8805 2401
Email Contact: help@hyclor.com.au
Emergency Telephone: 13 11 26 (Australia Poisons Information Centre)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information"

2. HAZARD IDENTIFICATION

Classified as hazardous according to the criteria of the GHS as adopted in Australia. Not a Dangerous Good according to ADG 7.5.

Poison Schedule: Not scheduled

GHS Hazard Statement(s)

Eye irritation/corrosion Category 1 H318 Causes serious eye damage

Precautionary statements

Prevention:
P280: Wear protective gloves/ eye protection/ face protection.

Response:
P305 + P310+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.

Storage:
None

Disposal:
None



Hazard pictograms

Signal word

Danger

Label Statements:	Keep out of reach of Children Read Label before use If medical advice is needed, have product container or label at hand.
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3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Concentration (% w/w)
Sodium Bisulphate	7681-38-1	90 - 100
Balance not contributing to product hazard		

4. FIRST AID MEASURES

If poisoning occurs, or medical advice needed contact a Poisons Information Centre. Phone Australia 13 1126 or a doctor. Have this SDS when you call.

Swallowed:	Do not induce vomiting unless advised to do so from, a medical practitioner. Give a glass of water. Wash out mouth with water. Seek medical attention.
Skin:	Rinse with plenty of water for at least 15 minutes then remove contaminated clothes. Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If irritation occurs seek immediate medical attention.
Eye:	If in eyes, remove contact lenses if present, hold eyes open, flood with water or normal saline solution for at least 15 minutes. Take care not to rinse contaminated water into the non-affected eye. Seek immediate medical attention.
Inhaled:	Remove from contaminated area. If patient finds breathing difficult, ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.
Note to Physician	Treat symptomatically. Can cause corneal burns.
First Aid Facilities	Eye wash and normal washroom facilities. First Aid Kit.
Medical Conditions that may be aggravated by exposure	None known.

5. FIRE FIGHTING MEASURES

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Suitable extinguishing media: Non-combustible. If the product is involved in a fire, use extinguishing media suitable for surrounding area such as Dry chemical, CO₂, water spray or alcohol-resistant foam.

Special hazards arising from the chemical: The product is not combustible.

Special protective equipment and precautions for fire fighters: The product is not combustible. Move containers from fire area if it can be done without risk. Dike fire-control water for later disposal; do not scatter the material. Do not get water inside containers. Cool containers with flooding quantities of water until well after fire is out. In confined areas or areas of excessive smoke, fire fighters must wear full protection and self-contained breathing apparatus.

Hazchem Code: 2X

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedure Evacuate all unnecessary personnel. Stop leak if you can do it without risk. Do not get water inside containers. Avoid skin and eye contact and inhalation of dust. Wear appropriate protective equipment and clothing – See section 8. Keep containers closed when not in use.

Environmental precautions Keep spilt products out of drains, sewers and waterways. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

Methods and materials for containment and cleaning up For **minor spills**, Sweep up, place material in a sealed container and place in garbage. Wash area down with excess water. For large spills contact the emergency response number.

7. HANDLING AND STORAGE

Keep out of the reach of children.

Precautions for safe handling

Avoid skin and eye contact and breathing in dust. Wear appropriate protective equipment and clothing. Remove contaminated clothing. Use in a well-ventilated area. Avoid spillage onto floor. Maintain personal hygiene by washing hands prior to eating, drinking, smoking or using toilet.

Safe storage, including any incompatibilities

Store in a cool, dry well-ventilated area, out of direct sunlight. Store in labelled, original containers. Keep containers tightly closed and upright. Avoid spillage onto the floor. Do not allow into contact with water.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: Exposure limits have not been established by Safe Work Australia for this product or any of its components. It is appropriate to apply the exposure standard for nuisance dusts of 10 mg/m³, measured as inhalable dust (8-hour TWA).

Workplace Exposure Standard(s) for decomposition product(s) are:

- Oxides of Sulphur (Sulphur dioxide): TWA, 5.2 mg/m³ (2 ppm). STEL, 13 mg/m³ (5 ppm)

Exposure controls

Appropriate Engineering Controls:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Avoid generating and inhaling dusts. Use in a well-ventilated area only. Keep containers in a well-ventilated area. Local exhaust ventilations system may be required, especially if chlorine gas evolved.

Personal Protective equipment - for manufacturing and bulk handling situations:

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Skin Protection:

Suitable protective clothing should be worn e.g. cotton overalls and safety shoes. Wear gloves of impervious material such as nitrile rubber (glove thickness 0.11 mm & breakthrough time > 480 min) that comply with AS/NZS 2126. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken.

Eye Protection:

Tightly fitting safety goggles or full-faced shields as appropriate recommended and that comply with AS/NZS

Respiratory Protection:

1336 and 1337. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken.

Respiratory protection is not normally necessary, unless the production of dust is significant. In such cases, a suitable respirator may be worn that meets the requirements of AS/NZS 1715 and 1716.

Personal Hygiene:

Always wash hands after handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White crystalline solid	Vapour density:	No data found
Odour:	Faint acidic	Relative density:	2.43 at 20 °C
pH:	~1 (1% aqueous solution)	Water solubility:	1.08 kg/L at 20° C
Melting point / freezing point:	177-180 °C	Partition coefficient n-octanol/water:	No data found
Initial boiling point and boiling range:	Not applicable	Auto-ignition temperature:	Not combustible
Flash point:	Not flammable	Decomposition temperature:	240 °C
Evaporation rate:	No data found	Viscosity:	Not applicable
Flammability:	Not flammable	Explosive properties:	Not explosive
Upper/lower flammability limits:	Not flammable	Oxidising properties:	No data found
Vapour pressure:	No data found	Corrosivity	Eye corrosive GHS Cat 1

10. STABILITY AND REACTIVITY

Reactivity:	Dissolves in water to give strongly acidic solutions.
Chemical Stability:	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous reactions:	Hazardous polymerisation will not occur. Contact with acids liberates toxic gas. Decomposes to oxides of sulfur
Conditions to avoid:	Avoid exposure to moisture, elevated temperature and sources of ignition.
Incompatible materials:	Incompatible with strong bases , calcium hypochlorite , sodium carbonate.

11. TOXICOLOGICAL INFORMATION

No data available for the product. Information given is based on the components: sodium bisulphate (> 90% w/w),



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Acute Oral	Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. Calculated Oral LD ₅₀ (rat) > 2000 mg/kg.
Acute Dermal	Calculated Dermal LD ₅₀ (rat) > 2000 mg/kg.
Skin corrosion/irritation	May cause slight skin irritation.
Serious eye damage/eye irritation	A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes. This material has been classified as a Category 1 Hazard (irreversible effects to eyes).
Inhalation	Material may be an irritant to mucous membranes and respiratory tract. Acute toxicity estimate (based on ingredients): >5 mg/L
Respiratory or skin sensitisation	No data found for skin or respiratory sensitisation
Mutagenicity	No data found.
Reproduction/Development	No data found.
Carcinogenicity	No data found.
Specific target organ toxicity - single exposure	No data found.
Specific target organ toxicity - repeated exposure	No data found
Aspiration hazard	Not applicable.

12. ECOLOGICAL INFORMATION

Aquatic toxicity	No data found
Persistence and degradability	No data found
Bioaccumulative potential:	No data found.
Mobility in soil	No data found.
PBT identification:	This product is not identified as a PBT/vPvB substance.
Other adverse effects:	None known.

13. DISPOSAL CONSIDERATIONS



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Disposal: Rinse empty containers in the pool and dispose of by wrapping with paper and putting in garbage. For larger quantities, refer to local government authority for disposal recommendations. Dispose of material through a licensed waste contractor. Leave chemicals in original containers. Handle uncleaned containers like the product itself.

14. TRANSPORT INFORMATION

This product is not classified as a Dangerous Good by ADG 7.5, IATA or IMDG Codes.

15. REGULATORY INFORMATION

Poisons Standard (Scheduling):	Not scheduled
APVMA Product Number:	Registration not required
Listing in the Australian Inventory of Chemical Substances (AICS)	Listed as sulfuric acid, monosodium salt

OTHER INFORMATION

ADG	Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.5, 2017
AS/NZS	Australian Standard/New Zealand Standard
CAS Number:	Unique Chemical Abstracts Service Registry Number
EC₅₀:	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species).
GHS:	Globally Harmonized System of classification and labelling of chemicals (GHS)
Hazchem Code:	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HCIS:	Hazardous Chemical Information System (http://hcis.safeworkaustralia.gov.au/HazardousChemical)
IARC:	International Agency for Research on Cancer
LD₅₀:	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
IDLH:	Immediately dangerous to life or health (IDLH) is defined by the US National Institute for Occupational Safety and Health (NIOSH)
LC₅₀:	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population.
NTP:	National Toxicology Program (USA)
SDS:	Safety Data Sheet
STEL:	Short term exposure limit (STEL) means the time-weighted average maximum airborne concentration of a substance calculated over a 15 minute period.
TWA:	8-hour Time-weighted average (TWA) means the maximum average airborne concentration of a substance when calculated over an eight-hour working day, for a five-day working week.
WES:	Workplace exposure standard

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UN Number: United Nations Dangerous Goods Number

References:

Work Safe Australia Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (February 2016). The exposure standards comply with the New Zealand and Australian Workplace Exposure Standards for Airborne Contaminants. The Dangerous Goods Classification complies with the Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.5, 2017. Other information from ChemIDPlus and linked databases. European Chemicals Agency Classification and Labelling database. SDSs from other suppliers.

Sections Revised: All

Replaces revision: 24 August 2016

Disclaimer

This Safety Data Sheet (SDS) has been prepared in compliance with the Work Safe Australia Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (February 2016). The information in this SDS should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Hy-Clor Australia Pty. Limited shall not be held liable for any damage resulting from handling or from contact with the above product.

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