

Section 1 – Identification of the Material and Supplier

Product Name: Evopure pH Decreaser
Other Name: Dry Acid
Chemical Nature: Sodium Bisulphate
Product Use: For lowering the pH level in swimming pool water.
Creation Date: 1/01/2018
This version issued: 1/01/2018 and is valid for 5 years from this date.

Details of Manufacturer:

Evolution Water & Lighting Solutions Pty Ltd
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Email: enquiries@evolutionwls.com.au

Emergency Telephone Number: 000

Poisons Information Centre: 131 126 in Australia, 0800 764 766 in New Zealand

Section 2 – Hazards Identification

Statement of Hazardous Nature

This product is classified as: Xi, Irritating. Hazardous according to the criteria of SWA.
Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

SUSMP Classification: S5

ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.

UN Number: None allocated

GHS Signal word: WARNING.

Skin Corrosion / Irritation Category 2
Serious eye damage/eye irritation Category 2/2A
Specific Target Organ Toxicity – Single Exposure Category 3
Hazardous to aquatic environment Short term/Acute Category 3



HAZARD STATEMENT:

H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H402: Harmful to aquatic life due to extreme pH.

PREVENTION

P102: Keep out of reach of children.
P261: Avoid breathing dusts.
P262: Do not get in eyes, on skin, or on clothing.
P264: Wash contacted areas thoroughly after handling.
P271: Use only outdoors or in a well ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves, protective clothing and eye or face protection.

RESPONSE

P353: Rinse skin or shower with water.
P362: Take off contaminated clothing and wash before reuse.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs: Get medical advice.

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P337+P313: If eye irritation persists: Get medical advice.

P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

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

DISPOSAL

P501: If product can not be recycled, contact a specialist waste disposal company (see Section 13 of this SDS).

Section 3 – Composition/Information on Ingredients

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium Bisulphate (Sulfuric acid, monosodium salt)	NaHSO ₄	7681-38-1	>99%

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

Section 4 – First Aid Measures

General Information: You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 131 126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: If irritation occurs, contact a Poisons Information Centre, or call a doctor. Remove source of contamination or more victim to fresh air. If breathing is difficult, apply artificial respiration as needed.

Skin Contact: Remove contaminated clothing and wash affected areas with soap and water. Seek medical attention if symptoms persist. Launder clothing before reuse.

Eye Contact: In case of eye contact, check for and remove any contact lenses. Immediately irrigate eyes with plenty of running water for at least 15 minutes, keeping eyelids open. Seek medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

Section 5 – Fire Fighting Measures

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 the area if it can be done without risk.

Flammability Conditions: Product is a non-flammable solid.

Extinguishing Media: Not combustible, however, if material is involved in a fire use: Foam, dry agent (carbon dioxide, chemical powder). Do not use water jet and water fog.

Fire and Explosion Hazard: Non-combustible material. Fire decomposition products from this product may be toxic if inhaled, take appropriate protective measures.

Flash Point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

Autoignition Temperature: Does not burn.

Flammability Class: Does not burn.

Section 6 – Accidental Release Measures

Personal Precautions: Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Ensure adequate ventilation. Do not breathe dust.

Environmental Precautions: In the event of a major spill do not let product reach drains or waterways.

Containment and Clean Up Procedures: Stop leak if safe to do so and contain spill. Vacuum or sweep spilled material and place in an appropriate container for disposal. Avoid generating dust.

Section 7 – Handling and Storage

Handling: Use safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Food, beverages and tobacco products should not be stored or consumed where this product is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

Storage: Make sure that containers of this product are kept tightly sealed / closed. Keep containers dry and away from water. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check regularly for spills.

Section 8 – Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.

SWA Exposure Limits

TWA (mg/m³)

STEL (mg/m³)

Exposure limits have not been established by SWA for this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

Eye Protection: Protective glasses or goggles must be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: Prevent skin contact by wearing impervious gloves, clothes and, preferably apron. Make sure that all skin areas are covered. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: cotton, rubber, PVC.

Respirator: If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask.

Section 9 – Physical and Chemical Properties

Appearance:	Colourless powder or crystals.
Odour:	Odourless.
Boiling Point:	No data available.
Melting Point:	180°C.
Volatiles:	Expected to be low at 100°C.
Vapour pressure:	No data available.
Vapour density:	No data available.
Specific Gravity:	1.5

pH:	1.3
Volatility:	No data available.
Flammability:	No data available.
Auto-ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Evaporation rate:	No data available.
Solubility in Water:	280g/l at 25°C

Section 10 – Stability and Reactivity

Chemical Stability: This material is stable under normal conditions of use, storage and temperature. In contact with water, the product forms an acid solution which is corrosive. Acid solutions may react with many metals forming hydrogen.

Conditions to Avoid: Avoid dust generation. Avoid exposure to humidity. Keep containers sealed / closed and dry.

Hazardous Decomposition Products: Toxic fumes, including oxides of sulphur.

Hazardous Polymerisation: This material will not undergo polymerisation reactions.

Section 11 – Toxicological Information

Toxicity:

LD50/LC50 Values Relevant for Classification
7681-38-1 Sulfuric acid, monosodium salt (NaHSO ₄)
Oral LD50 1220mg/kg (rabbit)

Acute Health Effects:

Inhalation: Breathing in dust may result in respiratory irritation.

Skin: Contact with skin will result in severe irritation. Corrosive to skin – may cause burns.

Eye: A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

Ingestion: Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage / Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitisation: Not expected to be a hazard.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: This product does not contain any IARC listed chemicals.

Reproductive Toxicity: No data available

Specific Target Organ Toxicity (STOT) – Single Exposure: Not expected to be a hazard.

Specific Target Organ Toxicity (STOT) – Repeated Exposure: Not expected to be a hazard.

Aspiration Hazard: Not expected to be a hazard.

Section 12 – Ecological Information

Ecotoxicity: Avoid contaminating waterways, toxic to aquatic life.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Section 13 – Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration: Consult your state Land Waste Management Authority for more information.

Section 14 – Transport Information

This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Section 15 – Regulatory Information

AICS: This product is compliant with NICNAS regulations.

Section 16 – Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG:	Australian Dangerous Goods
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
VOC:	Volatile Organic Compounds
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
IARC:	International Agency for Research on Cancer
STEL:	Short Term Exposure Limit
SDS:	Safety Data Sheet
SWA:	Safe Work Australia
CAS Number:	Chemical Abstracts Service Registry Number
SUSMP:	Standard for the Uniform Scheduling of Medicines and Poisons
AICS:	Australian Inventory of Chemical Substances

Disclaimer:

This Safety Data Sheet (SDS) is prepared in accord with the Safe Work Australia document "Preparation of Safety Data Sheets for Hazardous Chemicals, Code of Practice, February 2016".

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