

Section 1 – Identification of the Material and Supplier

Product Name: Evopure Salt Cell Cleaner
Product Use: Swimming pool salt (chlorinator) cell protector and scale remover.
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
1/33 Hinkler Drive, Highland Park QLD 4211
Phone: +61 7 5565 0000
Fax: +61 7 5565 0010
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

Hazard Classification of Substance

Classified as hazardous according to criteria of Safework Australia.

SUSMP Classification: S5 - CAUTION

GHS Signal word: WARNING

Acute toxicity Cat 4
Eye Irritation Cat 2

HAZARD STATEMENTS:

H302 Harmful if swallowed
H319 causes serious eye irritation

GENERAL

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

PREVENTION

P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P362+364 - Take off contaminated clothing and wash it before reuse.

RESPONSE

P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 - Rinse mouth. P302+352 - IF ON SKIN: Wash with plenty of soap and water.
P332+313 - If skin irritation occurs, get medical advice/attention.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313 - If eye irritation persists, get medical advice/attention.

STORAGE

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

DISPOSAL

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.



Section 3 – Composition/Information on Ingredients

Ingredients

Chemical Entity	CAS Number	Proportion	GHS Classification
Phosphonic acid, (1-hydroxyethylidene) bis-	2809-21-4	10-30%	H302; H319
Sodium Hydroxide	1310-73-2	5-10%	H314; H290
1-2 benzisothiazol-3(2H)-one	2634-33-5	<0.02%	H 315

If the sum of ingredients is less than 100%, the material consists of further ingredients determined not to be hazardous as listed in HCIS.

Section 4 – First Aid Measures

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

General Information: Gently wash with plenty of soap and water. Get medical attention/advice if you feel unwell.

Inhalation: Remove victim to ventilated area without becoming a casualty.

Skin Contact: Remove contaminated clothing and wash before re-use. Wash effected areas with water initially, then soap and water. Seek medical advice if irritation persists.

Eye Contact: If in eyes, hold eyes open, flood with water for at least 15minutes and see a doctor.

Advice to Doctor: Treat symptomatically.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media: Non combustible product. Use extinguishing agent suitable for type of surrounding fire.

Hazards from Combustion Productions: Not flammable Combustion will release toxic gasses (COx & POX).

Special Protective Precautions & Equipment for Fire Fighters: Not combustible, however following evaporation of the water component of the material, the residual material may decompose. On burning will emit toxic fumes. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of decomposition (COx & POX) evolved. If safe to do so, remove containers from path of fire

Section 6 – Accidental Release Measures

Emergency Procedures / Environmental Precautions: Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

Personal Precautions / Protective Equipment / Methods & Materials for Containment & Cleaning Up: Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. After cleaning, flush away any residual traces with water.

Section 7 – Handling and Storage

Precautions for Safe Handling: Avoid skin and eye contact, skin contamination and breathing in vapour.

Conditions for Safe Storage: Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

Section 8 – Exposure Controls and Personal Protection

Control Parameters: Not determined for this product.

Engineering Controls: Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Avoid generating and breathing in mists. Keep containers closed when not in use.

Personal Protection: 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.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES



Wear overalls, chemical goggles and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9 – Physical and Chemical Properties

Appearance:	Clear blue mobile fluid, soluble in water.
Flammability:	Product is not flammable.
Melting Point:	Not applicable.
Boiling Point:	100°C.
Flash Point:	Unknown
Vapour Pressure:	Unknown
Volatiles:	Unknown
Vapour Density:	Unknown
pH as supplied:	3.5-5.5
Specific Gravity:	1.09-1.15
Solubility in Water:	Soluble in water.

Section 10 – Stability and Reactivity

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to Avoid: Avoid exposure to heat, sources of ignition, and open flame.

Incompatible Materials: Oxidising agents (Class 5)

Hazardous Decomposition Products: Upon combustion oxides of carbon (COX) and phosphorous (POX).

Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Section 11 – Toxicological Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Symptoms of Exposure:

Ingestion: Irritating to all tissues, due to lower pH. Very low toxicity. Very unlikely sufficient will be ingested to cause any permanent damage, although may cause nausea and abdominal pain.

Eye Contact: Irritating to eyes. Will cause temporary discomfort. No permanent damage likely.

Skin Contact: Product has very low dermal toxicity and is not primary irritant or skin sensitizer. Irritation may be due to pH.

Inhalation: Not a likely exposure route.

Acute toxicity: ATE _{MIX} : >6000 mg/kg;	Not expected to be toxic.
Skin corrosion/irritation:	May be irritant.
Serious eye damage/irritation:	May be irritant.
Respiratory or skin sensitisation:	Not expected to be a sensitiser.
Germ cell mutagenicity:	Not expected to be mutagenic.
Carcinogenicity:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity:	Not expected to impair fertility.
Specific Target Organ Toxicity (STOT) – single exposure:	Mists may be an irritant.
Specific Target Organ Toxicity (STOT) – repeated exposure:	No data
Aspiration hazard:	Not expected to be a hazard.

Section 12 – Ecological Information

Ecotoxicity: May cause long-term adverse effects in the aquatic environment.

Acute Toxicity: No data available.

Chronic Toxicity: No data available.

Persistence and Degradability: Expected to be degradable.

Bioaccumulative Potential: LOW: Bioaccumulation As expected for highly water-soluble substances, the log Kow values for phosphonates are low (ATMP: -3.53; HEDP: -3.49; EDTMP: -4.10; HDTMP: -4.43; DTMP: -3.40). The potential for bioaccumulation of phosphonates in aquatic organisms is therefore expected to be low as well.

Mobility in Soil: Water soluble and mobile in soil.

Section 13 – Disposal Considerations

Disposal Methods and Containers: Refer to State Land Waste Management Authority. Empty containers must be decontaminated. Normally suitable for disposal at approved land waste site.

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

Classification: Classified as hazardous according to criteria of SAFEWORK Australia.

Classification of the Substance or Mixture:

Acute toxicity Cat 4

Eye Irritation Cat 2

Hazard Statement(s):

H302 Harmful if swallowed

H319 causes serious eye irritation

Poisons Schedule (SUSMP): 5 CAUTION

AICS: All ingredients are on the Australian Inventory of Chemical Substances.

Section 16 – Other Information

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

Contact Person / Point:

FOR EMERGENCIES ONLY CONTACT: Australia: 000
POISONS INFORMATION CENTRE: Australia 131126
New Zealand 0800 764 766

Acronyms:

ADG Australian Code for the Transport of Dangerous Goods by Road and Rail
ACGIH American Conference of Governmental Industrial Hygienists
ASCC Australian Safety and Compensation Council
Carcinogen Category Number 1. Established human carcinogen
2. Probably human carcinogen
3. Substances suspected of having carcinogenic potential
Code AICS Australian Inventory of Chemical Substances
CAS number Chemical Abstracts Service Registry Number
EPG Emergency Procedure Guide (superseded by IERG)
Hazchem Code Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IERG HB 76-2004 Dangerous goods - Initial Emergency Response Guide
IMDG International Maritime Dangerous Goods. A uniform code for transport of dangerous goods at sea.
LEL lower flammable (explosive) limits in air;
LD₅₀ Lethal Dose sufficient to kill 50% of test population
NIOSH National Institute for Occupational Safety and Health The United States federal agency responsible for conducting research and making recommendations for the prevention of work-related injury and illness.
NOAEL No Observed Adverse Effect Level
NOEL No Observable Effect Level
NOHSC National Occupational Health and Safety Commission
NTP National Toxicology Program (USA)
PEL Permissible Exposure Limit
RTECS Registry of Toxic Effects of Chemical Substances (Symyx Technologies)
TCLO Toxic Concentration Low
TDLO Toxic Dose Low : lowest dosage per unit of bodyweight (typically stated in milligrams per kilogram) of a substance known to have produced signs of toxicity in a particular animal species.
TLV Threshold Limit Value (ACGIH):The time weighted average used to describe exposure which is harmless to most of the population when exposed 8 hours per day, 40 hours per week.
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.
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.

SAFEWORK	Independent statutory agency with primary responsibility to improve occupational health and safety and workers' compensation arrangements across Australia.
STEL	(Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UEL	upper flammable (explosive) limits in air;
UN Number	United Nations Number

Sources for data.	Safety Data Sheets from Suppliers Hazardous Substances Information System (HSIS)– ASCC Australia (on-line) GHS (Globally Harmonised System of Substance Classification & Labelling) REACH (European Chemical Substance Information System) ADG Code 7th Edition SUSMP No 11
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Disclaimer:

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Evolution Water and Lighting Solutions Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Evolution Water and Lighting Solutions Pty Ltd at the contact details on page 1. Evolution Water and Lighting Solutions Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request. Evolution Water and Lighting Solutions Pty Ltd however makes no warranty whatsoever, expressed, implied or of merchantability regarding the accuracy of such data or the results to be obtained from the use thereof and assumes no responsibility for injury to buyer or third persons or for any damage to property, Buyer assumes all risks.