

Section 1 – Identification of the Material and Supplier

Product Name: Evopure 02 Shock
Other Name:
Chemical Nature: Percarbonate salt; liberates oxygen under certain conditions.
Product Use: Chlorine free shock treatment for pools and spas.
Creation Date: 1/01/2019
This version issued: 1/01/2023 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
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

Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

SUSMP Classification: S6
ADG Classification: Class 5.1: Oxidising substances.
UN Number: 3378, SODIUM CARBONATE PEROXYHYDRATE

GHS Signal word: DANGER

Oxidising Solids - Category 3
Serious Eye Damage/Irritation - Category 1
Acute Toxicity (Oral) - Category 4



HAZARD STATEMENT:

H272: May intensify fire; oxidizer.
H302: Harmful if swallowed.
H318: Causes serious eye damage.

PREVENTION

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P221: Take any precaution to avoid mixing with combustibles.
P280: Wear protective gloves/eye protection/face protection.
P270: Do not eat, drink or smoke when using this product.

RESPONSE

P370 + P378: In case of fire: Use water for extinction.
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.
P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330: Rinse mouth.

STORAGE

P402: Store in a dry place.
P405: Store locked up.
P410: Protect from sunlight.
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 | Formula | CAS Number | Proportion |
|--------------------------------|-------------|------------|------------|
| Sodium carbonate peroxyhydrate | Unspecified | 15630-89-4 | >=90 % |
| Sodium carbonate | Unspecified | 497-19-8 | <=10 % |

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: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Apply resuscitation if victim is not breathing. Administer oxygen if breathing is difficult. Call a Poison Centre or doctor/physician if you feel unwell.

Skin Contact: Remove material from skin immediately. Flush skin with running water for at least 15 minutes/wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.

Eye Contact: Immediately flush eyes with running water for several minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Immediately call a Poison Centre or doctor/physician.

Ingestion: If swallowed: Rinse mouth. Keep victim warm and quiet – Obtain immediate medical care.

Section 5 – Fire Fighting Measures

General Measures: If safe to do so, move undamaged containers from fire area. Do not move cargo if cargo has been exposed to heat. Cool containers with flooding quantities of water until well after fire is out – If impossible, withdraw from area and let fire burn. Avoid getting water inside containers: a violent reaction may occur.

Flammability Conditions: Oxidising solid - Will accelerate burning when involved in a fire. Not combustible.

Extinguishing Media: Small fire: Use flooding quantities of water. Do NOT use dry chemicals, Carbon dioxide or foam. Large fire: Flood fire area with water from a protected position.

Fire and Explosion Hazard: May explode from heating, shock, friction or contamination. May ignite combustibles. Runoff may create fire or explosion hazard.

Hazardous Products of Combustion: Fire may produce irritating, toxic, and/or corrosive gases - Carbon monoxide, Carbon dioxide, NaOx may be liberated.

Special Fire Fighting Instructions: Runoff from fire control water may pollute waterways. Dam fire control water for later disposal.

Personal Protective Equipment: Wear self contained breathing apparatus (SCBA) and chemical splash suit. Structural firefighter's uniform will provide limited protection.

Flash Point: No Data Available.

Lower Explosion: Limit No Data Available.

Upper Explosion Limit: No Data Available.

Auto Ignition Temperature: No Data Available.

Hazchem Code: 1Y

Section 6 – Accidental Release Measures

General Response Procedure: Ensure adequate ventilation. Do not contaminate. Keep combustibles (wood, paper, clothing, oil, and so on) away from spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Prevent exposure to heat. Avoid breathing dust. Avoid contact with eyes and skin.

Clean Up Procedures: Avoid generating dust. Use clean non-sparking tools to transfer material to a clean, dry plastic container and cover loosely. Move container from spill area.

Containment: Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Prevent dust cloud.

Decontamination: No information available.

Environmental Precautionary Measures: Do not allow to penetrate into soil, waterways or drains.

Evacuation Criteria: Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

Personal Precautionary Measures: Wear personal protective equipment (see Section 8).

Section 7 – Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Store in a cool, well ventilated area. Check containers periodically for corrosion and leaks. Containers should be kept closed in order to minimise contamination, especially from combustible or reducing materials. Make sure that the product does not come into contact with or substances listed under "Incompatibilities" in Section 10. If you keep more than 2500kg or L of Dangerous Goods of Packaging Group II, you may be required to license the premises or notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations. Check packaging - there may be further storage instructions on the label.

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 any of the significant ingredients in 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: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

Eye Protection: Protective glasses or goggles should 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: nitrile.

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.

Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being handled commercially.

Section 9 – Physical and Chemical Properties

| | |
|---|---|
| Physical Description & colour: | White granular solid. |
| Odour: | No odour. |
| Boiling Point: | No specific data. Expected to decompose before boiling. |
| Freezing/Melting Point: | No specific data. Solid at normal temperatures. |
| Volatiles: | No specific data. Expected to be low at 100°C. |
| Vapour Pressure: | No data. |
| Vapour Density: | Not applicable. |
| Specific Gravity: | 0.9-1.2 |
| Water Solubility: | 14.5g/100mL water at 25°C |
| pH: | 10.5 (3% solution in water) |
| Volatility: | No data. |
| Odour Threshold: | No data. |
| Evaporation Rate: | Not applicable. |
| Coeff Oil/water Distribution: | No data. |
| Autoignition temp: | Not data. |

Section 10 – Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties. Check the Safety Directions on the product label for further details of incompatibilities.

Conditions to Avoid: This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Containers should be kept dry. Keep away from sources of sparks or ignition. Keep isolated from combustible materials.

Incompatibilities: Water, strong acids, strong reducing agents, combustible materials.

Fire Decomposition: Carbon dioxide, usually without carbon monoxide and smoke.

Polymerisation: This product will not undergo polymerisation reactions.

Section 11 – Toxicological Information

General Information: Acute toxicity: Harmful if swallowed. The following symptoms may occur: Cough, shortage of breath, headache, nausea and vomiting.

Skin corrosion/irritation: Mild irritant (Rabbit).

Eye damage/irritation: Causes serious eye damage.

Respiratory/skin sensitisation: No information available.

CMR assessment: No information available.

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

Aspiration hazard: No information available.

Acute: Ingestion Acute toxicity - Oral: - LD50, Rat: 1,034 - 2,000 mg/kg.
Other Acute toxicity - Dermal: - LD50, Rabbit: >2,000 mg/kg.

Carcinogen Category: None

Section 12 – Ecological Information

This product is unlikely to adversely affect the environment. Salts, acids and bases are typically diluted and neutralised when released to the environment in small quantities.

Section 13 – Disposal Considerations

General Information: Dispose of contents/container in accordance with local/regional/national regulations.

Special Precautions for Land Fill: Handle contaminated packaging in the same way as the product itself. Non contaminated packaging may be recycled.

Section 14 – Transport Information

UN Number ADG, IMDG, IATA: 3378

Proper Shipping Name ADG, IMDG, IATA: SODIUM CARBONATE PEROXYHYDRATE

Dangerous Goods Class ADG Class: 5.1 Oxidising substances.

Packing Group ADG, IMDG, IATA: II

Hazchem Code: 1Y

Special Provisions: None allocated.

Limited Quantities: ADG 7 specifies a Limited Quantity value of 1 kg for this class of product.

Packaging Method: P002, IBC08

Section 15 – Regulatory Information

Australian Inventory of Chemical Substances:

All of the significant ingredients in this formulation are compliant with NICNAS regulations.

The following ingredients: Sodium percarbonate, and Sodium carbonate are mentioned in the SUSMP.

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

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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