

Product: Evopure Repel a Duck Issue: 1/01/2023 Page 1 of 8

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

## Section 1 – Identification of the Material and Supplier

Product Name:	Evopure Repel a Duck	
Proper Shipping Name:	Alkyl dimethyl benzyl ammonium chloride	
Product Use:	Algaecide and duck deterrent for swimming pools.	
Creation Date:	1/11/2018	
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: enguiries@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;

HAZARDOUS SUBSTANCE

## Classified as dangerous according to criteria of ADG Code.

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or 3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road and Rail when transported by road or rail in packagings, IBC's, or any other receptacle not exceeding 500 kg(L).

SUSMP Classification: S5 - CAUTION

## **GHS Signal word: DANGER**

#### HAZARD CATEGORY

Acute toxicity, Category 4 Serious eye damage/eye irritation Category 1 Acute aquatic toxicity, Category 1 Chronic aquatic toxicity, Category 1

## HAZARD STATEMENTS

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

## PRECAUTIONARY STATEMENTS

#### 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

P273 Avoid release to the environment.

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

## RESPONSE

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.







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P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

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

STORAGE

P405 Store locked up.

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
Quaternary ammonium compounds benzyl-C12-14- alkyldimethyl ,chlorides	85409-22-9	>=10%Conc<25%:	H302; H314 ; H400 ; H410
Alcohols Ethoxylate	68131-39-5	<5%	H315

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other nonhazardous ingredients are also possible. If the sum of ingredients is less than 100%, the material consists of further ingredients determined not to be hazardous or below their cut-off limits.

#### **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 inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

**Eye Contact:** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre, or a doctor, or for at least 15 minutes, and seek medical advice.

**Ingestion:** If swallowed, do NOT induce vomiting. Seek immediate medical advice.

Advice to Doctor: Treat symptomatically.

## Section 5 – Fire Fighting Measures

Suitable Extinguishing Media: Water spray jet, Foam, Carbon Dioxide (CO2), Dry Chemical Powder.

**Specific Hazards During Firefighting:** In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO) Nitrogen oxides (NOx) Hydrogen chloride (HCI).

**Special Protective Precautions & Equipment for Fire Fighters:** On burning will emit toxic fumes, including those of oxides of carbon, nitrogen and hydrogen chloride. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. If safe to do so, remove containers from path of fire. Keep containers cool with water spray.

Hazchem Code: 2Z





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## 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:** Handle and open container with care. Avoid skin and eye contact and breathing in vapour, mists and aerosols. Observe the general rules of industrial fire protection. Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well ventilated place. 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 product. However for some ingredients the Derived No Effect Limit (DNEL) according to Regulation EC #1907/2006 are shown below:

Substance	End Use	Exposure Route	Potential health Effects	Value DNEL
Alkyl dimethyl benzyl ammonium chloride	General population	Inhalation	Long-term systemic effects	1.64 mg/m <sup>3</sup>
	General population	Dermal	Long-term systemic effects	3.4 mg/kg bw/day

**Engineering Controls:** Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised.

**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.





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## Section 9 – Physical and Chemical Properties

Appearance: Flammability: Boiling Point: Flash Point: Vapour Pressure: Volatiles: Vapour Density: Flammability Limits: Specific Gravity: Solubility in water: pH as supplied: pH 1% Aqueous Solution: Blue, clear, mobile fluid. Characteristic odour. Product is not flammable. 100°C Unknown Unknown 88+/-0.5%w/w Unknown Unknown 1.02 Completely miscible. 4.0-8.0 7.0

## Section 10 – Stability and Reactivity

Reactivity: Stable under normal conditions of use.

Chemical Stability: Stable under normal conditions of use.

Conditions to Avoid: Do store in ambient to warm areas- keep below 35°C for good shelf life.

Incompatible Materials: Oxidising agents (Class 5), or foodstuffs.

**Hazardous Decomposition Products:** The product will decompose in a fire giving off toxic gases, being oxides of carbon (COX), nitrogen (NOX) and hydrogen chloride.

Hazardous Reactions: None under normal conditions of 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:

**Swallowed:** Harmful liable to cause nausea and vomiting. May cause tissue damage to mouth and gullet. **Eye:** IRRITANT. May cause injury and impairment of vision.

**Skin:** Irritant. May be severe with sensitive individuals or after repeated contact. Prolonged or repeated exposure may lead to dermatitis. No specific data available on skin adsorption.

**Inhalation:** Not normally considered an inhalation hazard. Aspiration (breathing in) of liquid, spray mist liable to cause severe irritation and damage to respiratory tract.

Acute Delayed: Repeated or prolonged exposure may cause allergic contact dermatitis.

Acute toxicity: ATE <sub>MIX</sub> >= 3900mg/kg	Expected to be harmful, Cat 4
Skin corrosion/irritation:	Expected to be an irritant. Cat 1
Serious eye damage/irritation:	Expected to be an irritant Cat 1
Respiratory or skin sensitisation:	Not expected to be a sensitiser.
Germ cell mutagenicity:	no data available
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:	no data available
Specific Target Organ Toxicity	no data available





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(STOT) – single exposure:	
Specific Target Organ Toxicity (STOT) – repeated exposure:	no data available
Aspiration hazard:	Not expected to be a hazard.

#### Section 12 – Ecological Information

**Ecotoxicity:** This product, while biodegradable at high dilution is toxic to marine and aquatic organisms. Ensure all spills are contained and recovered into suitable drums.

#### ALL DATA CITED REFERS TO THE ACTIVE INGREDIENT CONTENT ONLY

#### Acute Toxicity:

Fish Method: OECD Test Guideline 203	LC50 (Danio rerio (zebra fish)): 1 - 10 mg/l Exposure time: 96 h
Aquatic invertebrate Method: US-EPA FIFRA 72-2	EC50 (Daphnia magna (Water flea)): 0,0058 mg/l Exposure time: 48 h Remarks: The values mentioned are those of the active ingredient.
Algae Method: OECD Test Guideline 201	EC50 (Selenastrum capricornutum (green algae)): 0,049 mg/l ; Exposure time: 72 h Remarks: The values mentioned are those of the active ingredient.
Microorganisms –	Data not available

#### **Chronic Toxicity:**

Fish –	Data not available
Aquatic invertebrate –	NOEC: 0,025 mg/l
Method: OECD Test Guideline	Exposure time: 21 d
211	End point: Reproduction rate
Algae –	Data not available
Microorganisms –	EC50 : 17 mg/l
-	Method: OECD Test Guideline 209

#### Persistence and Degradability:

Biodegradation: 35 - 70 % Method: OECD Test Guideline 302B Biodegradation: > 80 % Method: OECD Test Guideline 301A Remarks: Readily biodegradable, according to appropriate OECD test.

Mobility in Soil: No data available.

## Section 13 – Disposal Considerations

**Disposal Methods and Containers:** Do not dump large quantities into biological treatment ponds. Laboratory data indicates that if quaternary ammonium compounds are discharged steadily at low concentrations (< 15 mg/litre), it may be expected that these salts can be degraded in sewage treatment plants by acclimatized organisms. Before discharging to sewer, contact local sewerage authority. Contact local Waste Disposal Authority regarding all major disposal problems. Rinse empty containers with clear water only, drain and re-seal before disposal or return.





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## **Section 14 – Transport Information**

**Road and Rail Transport:** Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or 3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road and Rail when transported by road or rail in packagings, IBC's, or any other receptacle not exceeding 500 kg(L).

UN Number:	3082
Transport Hazard Class/s:	9 Miscellaneous Dangerous Goods
Packing Group:	
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name:	Alkyldimethylbenzylammoniumchloride
Hazchem Code:	2Z
IERG Number:	47

**Marine Transport:** Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN Number:	3082
Transport Hazard Class/s:	9 Miscellaneous Dangerous Goods
Packing Group:	
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name:	Alkyldimethylbenzylammoniumchloride
Hazchem Code:	2Z
Special Instructions for User:	NA
IMDG EMS Fire:	F-A
IMDG EMS SPILL:	S-F

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

UN Number:	3082
Transport Hazard Class/s:	9 Miscellaneous Dangerous Goods
Packing Group:	
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name:	Alkyldimethylbenzylammoniumchloride
Hazchem Code:	2Z
Environmental Hazards:	Special marking provision: environmentally hazardous. Shipment permitted

## Section 15 – Regulatory Information

**Classification:** This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

#### **Classification of the Substance or Mixture:**

Acute toxicity, Category 4 Serious eye damage/eye irritation Category 1 Acute aquatic toxicity, Category 1 Chronic aquatic toxicity, Category 1

**Hazard Statements:** 

H302 Harmful if swallowed.H314 Causes severe skin burns and eye damage.H400 Very toxic to aquatic life.H410 Very toxic to aquatic life with long lasting effects.

### Poisons Schedule (SUSMP): 5 CAUTION

AICS:

All ingredients are on the Australian Inventory of Chemical Substances.





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## Section 16 – Other Information

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

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Contact Person / Po			
FOR EMERGENCIES ONLY CONTACT:		Australia:	000
POISONS INFORMATION CENTRE:		Australia	131126
	Ν	New Zealand	0800 764 766
Acronyms:			
ADG	Australian Code for the Tr	ransport of Da	ngerous Goods by Road and Rail
ACGIH	American Conference of (	Governmental	Industrial Hygienists
ASCC	Australian Safety and Cor		
Carcinogen Category	Number 1. Established hu		en
	<ol><li>Probably huma</li></ol>		
			ving carcinogenic potential
Code AICS	Australian Inventory of Ch		
CAS number	Chemical Abstracts Service		
EPG	Emergency Procedure Gu		
Hazchem Code			l letters that provide information to emergency
	services especially firefigh		
	International Agency for R		ancer
	International Air Transpor		
IERG			mergency Response Guide
IMDG		ingerous Good	s. A uniform code for transport of dangerous goods at
LEL	sea. lower flammable (explosiv	va) limita in air	
	Lethal Dose sufficient to k		
NIOSH			y and Health The United States federal agency
NICON			and health the onlied oldes rederal agency making recommendations for the prevention of work-
	related injury and illness.	g researen and	
NOAEL	No Observed Adverse Eff	fect Level	
NOEL	No Observable Effect Lev		
NOHSC	National Occupational Health and Safety Commission		
NTP	National Toxicology Progr		,
PEL	Permissible Exposure Lin		
RTECS			ubstances (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			e weighted average used to describe exposure which
			nen exposed 8 hours per day, 40 hours per week.
TWA			airborne concentration of a particular substance
		•	ur working day, for a five-day week.
			be used in the control of occupational health
	hazards. All atmospheric contamination should be kept to as low a level as is workable.		
			e used as fine dividing lines between safe and
			They are not a measure of relative toxicity.
SAFEWORK			ary responsibility to improve occupational health and
etei			ngements across Australia.
STEL	(Short Term Exposure Limit): The average airborne concentration over a 15 minute period		
SUSDP	which should not be exceeded at any time during a normal eight-hour workday. Standard for the Uniform Scheduling of Drugs & Poisons		
SUSMP	Standard for the Uniform Scheduling of Drugs & Polsons Standard for the Uniform Scheduling of Medicines & Polsons		
UEL	upper flammable (explosive) limits in air;		
UN Number	United Nations Number		





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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 21

#### **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.

