

## SAFETY DATA SHEET

## Radiance - Aqua Guard

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**

*Trade name:* Radiance - Aqua Guard  
*Product no.:* MBRAD-AG01

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

*Relevant identified uses of the substance or mixture:* Cleaning product  
Restricted to professional users.  
*Uses advised against :* For professional use only. This product is not recommended for any industrial, professional or consumer use other than the identified uses above

**1.3. Details of the supplier of the safety data sheet**

*Company and address:* **Autosmart Australia**  
11 Darrambal Close  
NSW 2283 Rathmines  
Australia  
Tel: 02 49 75 14 88 (Mon to Fri, 08:00 - 16:00 AEST)  
autosmart@autosmartaustralia.com.au

*Contact person:* Russell Butler  
*E-mail:* SHREQ@autosmart.co.uk  
*SDS date:* 11/7/2025  
*SDS Version:* 1.0

**1.4. Emergency telephone number**

In an Emergency call 000

NCEC - For Chemical Emergency Support ONLY (spill, leak, fire, exposure or accident), Call NCEC at 1800 074 234 (toll free 24Hrs) - when calling please quote "AUTOSMART 29003-NCEC"  
Local number +61 (0)2 8 014 4558

General Information. Transport Information. Mild medical Information:-  
Autosmart Australia, Tel: 02 49 75 14 88 (Mon to Fri, 08:00 - 16:00 AEST)

National Emergency Telephone Number:

In less severe situations call the Poisons Information Centre / Poison Information Hotline: 13 11 26 (Available 24/7 from anywhere in Australia)

### SECTION 2: HAZARDS IDENTIFICATION

This material is considered hazardous according to the Work Health and Safety Regulations.

**2.1. Classification of the substance or mixture**

Flam. Liq. 3; H226, Flammable liquid and vapour.  
Skin Corr. 1B; H314, Causes severe skin burns and eye damage.  
Eye Dam. 1; H318, Causes serious eye damage.  
Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects.

**2.2. Label elements**

*Hazard pictogram(s):*



*Signal word:*

Danger

*Hazard statement(s):*

Flammable liquid and vapour. (H226)  
Causes severe skin burns and eye damage. (H314)  
Toxic to aquatic life with long lasting effects. (H411)

*Precautionary statement(s):*

*General:*

-

*Prevention:*

Do not breathe vapour/mist. (P260)  
Wear protective gloves/protective clothing/eye protection/face protection. (P280)

*Response:*

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

*Storage:*

Store in a well-ventilated place. Keep cool. (P403+P235)

*Disposal:*

Dispose of contents/container in accordance with local regulation. (P501)

*Hazardous substances:*

Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides  
Amines, tallow alkyl, ethoxylated

*Additional labelling:*

Not applicable.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

Product/substance:	Identifiers:	% w/w:	Classification:	Note:
2-butoxyethanol; ethylene glycol monobutyl ether	CAS No.: 111-76-2 EC No.: 203-905-0	15-25%	Flam. Liq. 4, H227 Acute Tox. 4, H302 (ATE: 1200.00 mg/kg) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332	
Siloxanes and Silicones, 3-[3-[[3-(coco acylamino)propyl]dimethylammonio]-2-hydroxypropoxy]propyl Me, 3-(2,3-dihydroxypropoxy)propyl Me, di-Me, mixed [[[3-[3-[[3-(coco acylamino)propyl]dimethylammonio]-2-hydroxypropoxy]propyl]dimethylsilyloxy]- and [[[3-(2,3-dihydroxypropoxy)propyl]dimethylsilyloxy]-terminated, acetates (salts)	CAS No.: 519142-86-0 EC No.: 685-096-8	3-5%		[19]

Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides	CAS No.: 61789-77-3 EC No.: 263-087-6	3-5%	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318	[19]
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	CAS No.: EC No.: 934-956-3	3-5%	Asp. Tox. 1, H304	
Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides	CAS No.: 61789-77-3 EC No.: 263-087-6	3-5%	Flam. Liq. 3, H226 Acute Tox. 4, H302 (ATE: 2000.00 mg/kg) Skin Corr. 1B, H314 Eye Dam. 1, H318	[19]
propan-2-ol;isopropyl alcohol;isopropanol	CAS No.: 67-63-0 EC No.: 200-661-7	1-3%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
Amines, tallow alkyl, ethoxylated	CAS No.: 61791-26-2 EC No.: 500-153-8	<1%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318	[19]
Decamethylcyclotetrasiloxane	CAS No.: 541-02-6 EC No.: 208-764-9	<1%		
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	CAS No.: 127-51-5 EC No.: 204-846-3	<1%	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	
licareol; (R)-3,7-dimethyl-1,6-octadien-3-ol; l-linalool;coriandrol; (S)-3,7-dimethyl-1,6-octadien-3-ol; d-linalool;linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	CAS No.: 78-70-6 EC No.: 201-134-4	<1%	Skin Sens. 1B, H317	
octamethylcyclotetrasiloxane; [D4]	CAS No.: 556-67-2 EC No.: 209-136-7	<0.25%	Flam. Liq. 3, H226 Repr. 2, H361f	
Ethyl 2,3-epoxy-3-phenylbutyrate	CAS No.: 77-83-8 EC No.: 201-061-8	<0.25%	Skin Sens. 1B, H317	
Citronellol	CAS No.: 106-22-9 EC No.: 203-375-0	<0.25%	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General information:

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet.  
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

<i>Inhalation:</i>	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
<i>Skin contact:</i>	Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment. Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.
<i>Eye contact:</i>	If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.
<i>Ingestion:</i>	In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.
<i>Burns:</i>	Rinse with water until pain stops then continue to rinse for 30 minutes.

#### 4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

#### 4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:  
Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

Flammable liquid and vapour.

In use may form flammable/explosive vapour-air mixture.

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure call the NSW Poisons Information Centre on 13 11 26 (Available 24/7) in order to obtain further advice.

Hazchem Code: 2X

## SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it.  
Ensure sufficient ventilation.  
Avoid direct contact with spilled substances.  
Ensure adequate ventilation, especially in confined areas.  
Contaminated areas may be slippery.

## 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

## 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.  
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

## 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.  
See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Ground and bond container and receiving equipment.  
Use explosion-proof [electrical/lighting/ventilating] equipment.  
Use non-sparking tools.  
Take action to prevent static discharges.  
It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.  
Avoid direct contact with the product.  
Smoking, drinking and consumption of food is not allowed in the work area.  
See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  
Take action to prevent static discharges.  
Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

*Recommended storage material:* Keep only in original packaging.

*Storage conditions:* Dry, cool and well ventilated

*Incompatible materials:* Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

2-butoxyethanol; ethylene glycol monobutyl ether  
Long term exposure limit (8 hours) (ppm): 20  
Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 96.9  
Short term exposure limit (15 minutes) (ppm): 50  
Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 242  
Annotations:

Sk = Absorption through the skin may be a significant source of exposure.

propan-2-ol;isopropyl alcohol;isopropanol  
Long term exposure limit (8 hours) (ppm): 400  
Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 983  
Short term exposure limit (15 minutes) (ppm): 500  
Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 1230

2-butoxyethanol; ethylene glycol monobutyl ether  
 Long term exposure limit (8 hours) (ppm): 20  
 Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 96.9  
 Short term exposure limit (15 minutes) (ppm): 50  
 Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 242

Annotations:

Sk = Absorption through the skin may be a significant source of exposure.

3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one  
 Long term exposure limit (8 hours) (ppm): 50  
 Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 270  
 Short term exposure limit (15 minutes) (ppm): 100  
 Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 541

2-methylbutyl acetate;1-methylbutyl acetate;pentyl acetate;isopentyl acetate;2(or 3)-methylbutyl acetate  
 Long term exposure limit (8 hours) (ppm): 50  
 Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 270  
 Short term exposure limit (15 minutes) (ppm): 100  
 Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 541

Workplace exposure standards for airborne contaminants (Safe Work Australia). (January 2024)

## 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

*General recommendations:*

Smoking, drinking and consumption of food is not allowed in the work area.

*Exposure scenarios:*

There are no exposure scenarios implemented for this product.

*Exposure limits:*

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

*Appropriate technical measures:*

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

*Hygiene measures:*

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

*Measures to avoid environmental exposure:*

Keep damming materials near the workplace. If possible, collect spillage during work.

## Individual protection measures, such as personal protective equipment


*Generally:*

Use only protective equipment that carries the RCM symbol.

*Respiratory Equipment:*


Type:	Class:	Colour:	Standards:	:
Respiratory protection is not needed in the event of adequate ventilation.				

*Skin protection:*

Recommended:	Type/Category:	Standards:	:
Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.	-	-	


Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

*Hand protection:*

Material:	Glove thickness (mm):	Breakthrough time (min.):	Standards:	:
Nitrile	0,2	> 30	EN374-2, EN16523-1, EN388	

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The breakthrough time for any glove material may be different for different glove manufacturers. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. When used with mixtures, the protection time of gloves cannot be accurately estimated. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Thickness: > 0.2 mm The selected gloves should have a breakthrough time of at least 2 hours. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. Use thin cotton gloves inside natural rubber gloves if there is an allergy risk to natural rubber.

*Eye protection:*

Type:	Standards:	:
Face shield	EN ISO 16321-1	

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<i>Form:</i>	Liquid
<i>Colour:</i>	Pink
<i>Odour:</i>	Fruity
<i>Odour threshold (ppm):</i>	No data available.
<i>pH:</i>	7.1
<i>pH in solution:</i>	7.1 (1%)
<i>Density (g/cm<sup>3</sup>):</i>	No data available.
<i>Kinematic viscosity:</i>	No data available.

*Particle characteristics:* Does not apply to liquids.

#### Phase changes

*Melting point/Freezing point (°C):* No data available.  
*Softening point/range (°C):* Does not apply to liquids.  
*Boiling point (°C):* No data available.  
*Vapour pressure:* No data available.  
*Relative vapour density:* No data available.  
*Decomposition temperature (°C):* No data available.

#### Data on fire and explosion hazards

*Flash point (°C):* 58  
*Flammability (°C):* The material is ignitable.  
*Auto-ignition temperature (°C):* No data available.  
*Explosion limits (% v/v):* No data available.

#### Solubility

*Solubility in water:* No data available.  
*n-octanol/water coefficient (LogKow):* No data available.  
*Solubility in fat (g/L):* No data available.

#### 9.2. Other information

*Other physical and chemical parameters:* No data available.  
*Oxidizing properties:* No data available.

## SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

Avoid static electricity.

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

## SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

##### Acute toxicity

Product/substance	Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides
Test method:	OECD 401
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>300 - 2,000 mg/kg

Product/substance	propan-2-ol;isopropyl alcohol;isopropanol
Test method:	OECD 401
Species:	Rat

Route of exposure: Test: Result:	Oral LD50 5,840 mg/kg
Product/substance Test method: Species: Route of exposure: Result:	propan-2-ol;isopropyl alcohol;isopropanol OECD 402 Rabbit Dermal >12,800 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	propan-2-ol;isopropyl alcohol;isopropanol OECD 403 Rat Inhalation LC50 >10000 mg/kg
Product/substance Species: Route of exposure: Test: Result:	2-butoxyethanol; ethylene glycol monobutyl ether Mouse Oral LD50 1230 mg/kg
Product/substance Species: Route of exposure: Test: Result:	2-butoxyethanol; ethylene glycol monobutyl ether Rat Oral LD50 470 mg/kg
Product/substance Species: Route of exposure: Test: Result:	Decamethylcyclopentasiloxane Rat, male/female Oral LD50 24135 mg/kg
Product/substance Species: Route of exposure: Test: Result:	Decamethylcyclopentasiloxane Rabbit, male/female Dermal LD50 2001 mg/kg
Product/substance Species: Route of exposure: Test: Result:	Decamethylcyclopentasiloxane Rat, male/female Inhalation LC50 8.67 mg/L
Product/substance Species: Route of exposure: Test: Result:	3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one Rat Oral LD50 >5000 mg/kg
Product/substance Species: Route of exposure: Test: Result:	3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one Rabbit Dermal LD50 >5000 mg/kg
Product/substance Species: Route of exposure: Test:	licareol; (R)-3,7-dimethyl-1,6-octadien-3-ol; l-linalool;coriandrol; (S)-3,7-dimethyl-1,6-octadien-3-ol; d-linalool;linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool Rat Oral LD50

Result:	= 2790 mg/kg
Product/substance	licareol; (R)-3,7-dimethyl-1,6-octadien-3-ol; l-linalool; coriandrol; (S)-3,7-dimethyl-1,6-octadien-3-ol; d-linalool; linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	= 5610 mg/kg
Product/substance	octamethylcyclotetrasiloxane; [D4]
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	4801 mg/kg
Product/substance	octamethylcyclotetrasiloxane; [D4]
Species:	Rat, male/female
Route of exposure:	Dermal
Test:	LD50
Result:	2401 mg/kg
Product/substance	octamethylcyclotetrasiloxane; [D4]
Test method:	OECD 403
Species:	Rat, male/female
Route of exposure:	Inhalation
Test:	LC50
Result:	36 mg/L
Product/substance	Ethyl 2,3-epoxy-3-phenylbutyrate
Species:	Rat
Test:	LD50
Result:	= 5470 mg/kg
Product/substance	Citronellol
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	= 3450 mg/kg
Product/substance	Citronellol
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	= 2650 mg/kg
Product/substance	2-methylbutyl acetat;1-methylbutyl acetate;pentyl acetate;isopentyl acetate;2(or 3)-methylbutyl acetate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	= 16600 mg/kg
Product/substance	2-methylbutyl acetat;1-methylbutyl acetate;pentyl acetate;isopentyl acetate;2(or 3)-methylbutyl acetate
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	> 5000 mg/kg

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

Product/substance	Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides
Test method:	OECD 404
Species:	Rabbit

Result: Adverse effect observed (Corrosive)

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
 Species: Rabbit  
 Result: No adverse effect observed (Not irritating)

Causes severe skin burns and eye damage.

### Serious eye damage/irritation

Product/substance Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides  
 Test method: OECD 405  
 Species: Rabbit  
 Result: Adverse effect observed (Causes serious eye damage)

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
 Test method: OECD 405  
 Species: Rabbit  
 Result: Adverse effect observed (Irritating)

Causes serious eye damage.

### Respiratory sensitisation

Based on available data, the classification criteria are not met.

### Skin sensitisation

Product/substance Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides  
 Test method: OECD 406  
 Species: Guinea pig  
 Result: No adverse effect observed (not sensitising)

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
 Test method: OECD 406  
 Species: Guinea pig  
 Result: No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

### Carcinogenicity

Based on available data, the classification criteria are not met.

2-butoxyethanol; ethylene glycol monobutyl ether has been classified by IARC as a group 3 carcinogen.

propan-2-ol;isopropyl alcohol;isopropanol has been classified by IARC as a group 3 carcinogen.

2-butoxyethanol; ethylene glycol monobutyl ether has been classified by IARC as a group 3 carcinogen.

### Reproductive toxicity

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Product/substance Siloxanes and Silicones, 3-[3-[[3-(coco acylamino)propyl]dimethylammonio]-2-hydroxypropoxy]propyl Me, 3-(2,3-dihydroxypropoxy)propyl Me, di-Me, mixed [[[3-[3-[[3-(coco acylamino)propyl]dimethylammonio]-2-hydroxypropoxy]propyl]dimethylsilyl]oxy]- and [[[3-(2,3-

Species:	dihydroxypropoxy)propyl]dimethylsilyl]oxy]-terminated, acetates (salts) Fish, Danio rerio
Duration:	96 hours
Test:	LC50
Result:	>10-100 mg/L
Product/substance	Siloxanes and Silicones, 3-[3-[[3-(coco acylamino)propyl]dimethylammonio]-2-hydroxypropoxy]propyl Me, 3-(2,3-dihydroxypropoxy)propyl Me, di-Me, mixed [[[3-[3-[[3-(coco acylamino)propyl]dimethylammonio]-2-hydroxypropoxy]propyl]dimethylsilyl]oxy]- and [[[3-(2,3-dihydroxypropoxy)propyl]dimethylsilyl]oxy]-terminated, acetates (salts)
Test method:	OECD 202
Species:	Daphnia, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	>10-100 mg/L
Product/substance	Siloxanes and Silicones, 3-[3-[[3-(coco acylamino)propyl]dimethylammonio]-2-hydroxypropoxy]propyl Me, 3-(2,3-dihydroxypropoxy)propyl Me, di-Me, mixed [[[3-[3-[[3-(coco acylamino)propyl]dimethylammonio]-2-hydroxypropoxy]propyl]dimethylsilyl]oxy]- and [[[3-(2,3-dihydroxypropoxy)propyl]dimethylsilyl]oxy]-terminated, acetates (salts)
Species:	Algae, Desmodesmus subspicatus
Duration:	72 hours
Test:	EC50
Result:	>5 mg/L
Product/substance	Siloxanes and Silicones, 3-[3-[[3-(coco acylamino)propyl]dimethylammonio]-2-hydroxypropoxy]propyl Me, 3-(2,3-dihydroxypropoxy)propyl Me, di-Me, mixed [[[3-[3-[[3-(coco acylamino)propyl]dimethylammonio]-2-hydroxypropoxy]propyl]dimethylsilyl]oxy]- and [[[3-(2,3-dihydroxypropoxy)propyl]dimethylsilyl]oxy]-terminated, acetates (salts)
Test method:	OECD 209
Species:	Bacteria
Test:	EC50
Result:	>1000 mg/L
Product/substance	Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides
Test method:	OECD 203
Species:	Fish, Danio rerio
Compartment:	Freshwater
Duration:	96 hours
Test:	LC50
Result:	>0.1 - 1 mg/L
Product/substance	Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides
Test method:	OECD 201
Species:	Algae, Pseudokirchneriella subcapitata
Compartment:	Freshwater
Duration:	72 hours
Test:	NOEC
Result:	>0.01 - 0.1 mg/L
Product/substance	Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides
Test method:	OECD 201
Species:	Algae, Pseudokirchneriella subcapitata
Compartment:	Freshwater
Duration:	72 hours
Test:	EC50
Result:	>0.1 - 1 mg/L
Product/substance	Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides
Test method:	OECD 211
Species:	Daphnia, Daphnia magna
Duration:	21 days
Test:	NOEC
Result:	>0.1 - 1 mg/L

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
 Test method: OECD 203  
 Species: Fish, Pimephales promelas  
 Duration: 96 hours  
 Test: LC50  
 Result: 9640 mg/L

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
 Test method: OECD 202  
 Species: Daphnia  
 Duration: 24 hours  
 Test: LC50  
 Result: >10000 mg/L

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
 Species: Algae  
 Duration: 7 days  
 Test: NOEC  
 Result: 1800 mg/L

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
 Species: Bacteria  
 Test: EC50  
 Result: >1000 mg/L

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
 Species: Daphnia, Daphnia magna  
 Duration: 21 days  
 Test: NOEC  
 Result: 30 mg/L

Product/substance Decamethylcyclopentasiloxane  
 Test method: OECD 204  
 Species: Fish, Oncorhynchus mykiss  
 Duration: 96 hours  
 Test: LC50  
 Result: 16.1 µg/L

Product/substance Decamethylcyclopentasiloxane  
 Test method: OECD 202  
 Species: Daphnia  
 Duration: 48 hours  
 Test: EC50  
 Result: 2.91 mg/L

Product/substance Decamethylcyclopentasiloxane  
 Species: Algae, Pseudokirchneriella subcapitata  
 Duration: 96 hours  
 Test: EC50  
 Result: 0.0121 mg/L

Product/substance Decamethylcyclopentasiloxane  
 Species: Algae, Pseudokirchneriella subcapitata  
 Duration: 96 hours  
 Test: NOEC  
 Result: 0.0121 mg/L

Product/substance Decamethylcyclopentasiloxane  
 Species: Fish, Oncorhynchus mykiss  
 Duration: 14 days  
 Test: LC50  
 Result: 16.1 mg/L

Product/substance Decamethylcyclopentasiloxane  
 Species: Fish, Oncorhynchus mykiss  
 Test: NOEC  
 Result: 0.0171 mg/L

Product/substance Decamethylcyclopentasiloxane  
 Species: Fish, Oncorhynchus mykiss  
 Duration: 90 days  
 Test: NOEC  
 Result: 0.0141 mg/L

Product/substance Decamethylcyclopentasiloxane  
 Species: Daphnia, Daphnia magna  
 Duration: 21 days  
 Test: NOEC  
 Result: 0.0151 mg/L

Based on available data, the classification criteria are not met.

### 12.2. Persistence and degradability

Product/substance Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides  
 Conclusion: Inherently biodegradable  
 Test: OECD 301 D

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
 Duration: 21 days  
 Result: 95 %  
 Conclusion: Readily biodegradable  
 Test: OECD 301 E

Product/substance Decamethylcyclopentasiloxane  
 Duration: 28 days  
 Result: 0.14 %  
 Conclusion: -  
 Test: OECD 310

Product/substance octamethylcyclotetrasiloxane; [D4]  
 Duration: 28 days  
 Result: 3.7 %  
 Conclusion: -  
 Test: OECD 310

### 12.3. Bioaccumulative potential

Product/substance Siloxanes and Silicones, 3-[3-[[[3-(coco acylamino)propyl]dimethylammonio]-2-hydroxypropoxy]propyl Me, 3-(2,3-dihydroxypropoxy)propyl Me, di-Me, mixed [[[3-[3-[[[3-(coco acylamino)propyl]dimethylammonio]-2-hydroxypropoxy]propyl]dimethylsilyl]oxy]- and [[[3-(2,3-dihydroxypropoxy)propyl]dimethylsilyl]oxy]-terminated, acetates (salts)  
 Conclusion: The substance is inorganic. Biodegradation studies are not applicable.

Product/substance Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides  
 LogKow: log Pow: 2.59 (@25 C)  
 Conclusion: Bioaccumulation is not expected

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
 Conclusion: Potential for bioaccumulation is low

Product/substance Decamethylcyclopentasiloxane  
 BCF: 2010  
 LogKow: 5.2  
 Conclusion: -

Product/substance octamethylcyclotetrasiloxane; [D4]  
 BCF: 12400

LogKow: 6.49  
 Conclusion: -

**12.4. Mobility in soil**

propan-2-ol;isopropyl alcohol;isopropanol  
 LogKoc = 1.1, High mobility potential.  
 Decamethylcyclopentasiloxane  
 LogKoc = 5001, Low mobility potential.  
 octamethylcyclotetrasiloxane; [D4]  
 LogKoc = 16596, Low mobility potential.

**12.5. Results of PBT and vPvB assessment**

This product contains a vPvB and/or PBT substance:  
 Decamethylcyclopentasiloxane (PBT / vPvB)  
 octamethylcyclotetrasiloxane; [D4] (PBT / vPvB)

**12.6. Other adverse effects**

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.  
 This product contains substances, which may cause adverse long-term effects to the aquatic environment.

## SECTION 13: DISPOSAL CONSIDERATIONS



**Waste treatment methods**


Dispose of contents/container to an approved waste disposal plant.

**Specific labelling**

**Contaminated packing**

## SECTION 14: TRANSPORT INFORMATION

:	14.1 UN / ID:	14.2 UN proper shipping name:	14.3 Hazard class(es):	14.4 PG*:	14.5 Env**:	Other information:
ADG	UN1760	CORROSIVE LIQUID, N.O.S.	Transport hazard class: 8 Label: 8 Classification code: C9 	II	Yes	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1760	CORROSIVE LIQUID, N.O.S.	Transport hazard class: 8 Label: 8 Classification code: C9 	II	Yes	Limited quantities: 1 L EmS: F-A S-B See below for additional information.
IATA	UN1760	CORROSIVE LIQUID, N.O.S.	Transport hazard class: 8	II	Yes	See below

:	14.1 UN / ID:	14.2 UN proper shipping name:	14.3 Hazard class(es):	14.4 PG*:	14.5 Env**:	Other information:
			Label: 8 Classification code: C9 			for additional information.

\* Packing group

\*\* Environmental hazards

### Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

Hazchem Code: 2X

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

*Restrictions for application:*

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

*Demands for specific education:*

No specific requirements.

*Control of major hazard facilities:*

Flammable Material / Treshold quantity: 50 000 tonnes

*Additional information:*

Not applicable.

*The Australian Inventory of Industrial Chemicals (AIIC):*

2-butoxyethanol; ethylene glycol monobutyl ether is listed  
 Siloxanes and Silicones, 3-[3-[[3-(coco acylamino)propyl]dimethylammonio]-2-hydroxypropoxy]propyl Me, 3-(2,3-dihydroxypropoxy)propyl Me, di-Me, mixed [[[3-[3-[[3-(coco acylamino)propyl]dimethylammonio]-2-hydroxypropoxy]propyl]dimethylsilyl]oxy]- and [[[3-(2,3-dihydroxypropoxy)propyl]dimethylsilyl]oxy]-terminated, acetates (salts) is listed  
 Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides is listed  
 Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides is listed  
 propan-2-ol; isopropyl alcohol; isopropanol is listed  
 Amines, tallow alkyl, ethoxylated is listed  
 2-butoxyethanol; ethylene glycol monobutyl ether is listed  
 Decamethylcyclotetrasiloxane is listed  
 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one is listed  
 linalool; (R)-3,7-dimethyl-1,6-octadien-3-ol; l-linalool; coriandrol; (S)-3,7-dimethyl-1,6-octadien-3-ol; d-linalool; linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool is listed  
 octamethylcyclotetrasiloxane; [D4] is listed  
 Ethyl 2,3-epoxy-3-phenylbutyrate is listed

	Citronellol is listed 2-methylbutyl acetat;1-methylbutyl acetate;pentyl acetate;isopentyl acetate;2(or 3)-methylbutyl acetate is listed
<i>SUSMP:</i>	Schedule 6. Poisons.
<i>Sources:</i>	National Standard for the Control of Major Hazard Facilities [NOHSC:1014(2002)]. Model Work Health and Safety Regulations as at 1 January 2021.

**15.2. Chemical safety assessment**

No

**SECTION 16: OTHER INFORMATION****Full text of H-phrases as mentioned in section 3**

H225, Highly flammable liquid and vapour.  
H226, Flammable liquid and vapour.  
H227, Combustible liquid  
H302, Harmful if swallowed.  
H304, May be fatal if swallowed and enters airways.  
H314, Causes severe skin burns and eye damage.  
H315, Causes skin irritation.  
H317, May cause an allergic skin reaction.  
H318, Causes serious eye damage.  
H319, Causes serious eye irritation.  
H332, Harmful if inhaled.  
H336, May cause drowsiness or dizziness.  
H361f, Suspected of damaging fertility.

**The full text of identified uses as mentioned in section 1**

None known.

**Abbreviations and acronyms**

ADG = The Australian Code for the Transport of Dangerous Goods by Road & Rail  
AICIS = Australian Industrial Chemicals Introduction Scheme  
AIIC = Australian Inventory of Industrial Chemicals  
AS = Australian Standard  
AS/NZS = Australian New Zealand Standard  
ATE = Acute Toxicity Estimate  
AUH = Hazard statements specific for Australia  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
EINECS = European Inventory of Existing Commercial chemical Substances  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
Hazchem = Hazardous chemicals  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
NICNAS = National Industrial Chemicals Notification and Assessment Scheme (replaced by AICIS since 2020)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
RCM = Regulatory Mark of Conformity  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
SCL = A specific concentration limit  
STEL = Short-term exposure limits  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
SUSMP = Standard for the Uniform Scheduling of Medicines and Poisons  
TWA = Time weighted average  
UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

WHS = Work Health and Safety Regulations

**Additional information**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by the Work Health and Safety Regulations.

The classification of the mixture in regard to physical hazards has been based on experimental data.

Refer to AS 1940-2017: The storage and handling of flammable and combustible liquids.

**The safety data sheet is validated by**

Adrian

**Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: AU-en