

## SAFETY DATA SHEET

## Radiance - Ultra Beads

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

**1.1. Product identifier**

*Trade name:* Radiance - Ultra Beads

*Product no.:* MBRAD-UB01

**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:* 12/3/2025

*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**

Skin Corr. 1B; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

*Hazard pictogram(s):*



*Signal word:*

Danger

*Hazard statement(s):*

Causes severe skin burns and eye damage. (H314)  
Harmful to aquatic life with long lasting effects. (H412)

*Precautionary statement(s):*

*General:*

-

*Prevention:*

Do not breathe vapour/mist. (P260)  
Avoid release to the environment. (P273)  
Wear face protection/protective gloves/protective clothing. (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:*

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*Disposal:*

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

*Hazardous substances:*

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

*Additional labelling:*

Not applicable.

## 2.3. Other hazards

## 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	5-10%	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	
Quaternary ammonium compounds, dicoco alkyl dimethyl, 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]
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	
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	CAS No.: EC No.: 934-956-3	1-3%	Asp. Tox. 1, H304	
Quaternary ammonium compounds, dicoco alkyl dimethyl, chlorides	CAS No.: 61789-77-3 EC No.: 263-087-6	1-3%	Flam. Liq. 3, H226 Acute Tox. 4, H302 (ATE: 2000.00 mg/kg) Skin Corr. 1B, H314 Eye Dam. 1, H318	[19]

Amines, tallow alkyl, ethoxylated	CAS No.: 61791-26-2 EC No.: 500-153-8	<0.25%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318	[19]
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	<0.25%	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	<0.25%	Skin Sens. 1B, H317	
Citronellol	CAS No.: 106-22-9 EC No.: 203-375-0	<0.1%	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.

#### Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact:

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.

#### Eye contact:

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.

#### Ingestion:

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.

#### Burns:

Not applicable.

**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**

Not applicable.

**5.2. Special hazards arising from the substance or 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**

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**

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.

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

<i>Storage conditions:</i>	Dry, cool and well ventilated
<i>Incompatible materials:</i>	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

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

**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:	:
No special when used as intended.				

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is appropriately marked to a relevant standard. Check that the respirator fits tightly and the filter is changed regularly.


Gas and combination filter cartridges suitable for intended use, Full face mask respirators with replaceable filter cartridges suitable for intended use, half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use, can all be used.

### *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, EN374-3, 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 alternatively safety glasses with side shields.	EN166	

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>	Characteristic, Fruity
<i>Odour threshold (ppm):</i>	No data available.
<i>pH:</i>	7.38
<i>Density (g/cm<sup>3</sup>):</i>	0.983
<i>Relative density:</i>	0.983
<i>Kinematic viscosity:</i>	1 centistokes (20 °C)
<i>Particle characteristics:</i>	Does not apply to liquids.

### Phase changes

<i>Melting point/Freezing point (°C):</i>	0
<i>Softening point/range (°C):</i>	Does not apply to liquids.
<i>Boiling point (°C):</i>	80
<i>Vapour pressure:</i>	No data available.
<i>Relative vapour density:</i>	No data available.
<i>Decomposition temperature (°C):</i>	No data available.

### Data on fire and explosion hazards

<i>Flash point (°C):</i>	77 Negative results have been obtained in the sustained combustibility test L.2, Part III, section 32 of the UN RTDG, Manual of Tests and Criteria.
<i>Flammability (°C):</i>	The material is not combustible.
<i>Auto-ignition temperature (°C):</i>	No data available.
<i>Explosion limits (% v/v):</i>	No data available.

### Solubility

<i>Solubility in water:</i>	Soluble
<i>n-octanol/water coefficient (LogKow):</i>	No data available.
<i>Solubility in fat (g/L):</i>	No data available.

### 9.2. Other information

<i>VOC (g/L):</i>	101
<i>Other physical and chemical parameters:</i>	No data available.
<i>Oxidizing properties:</i>	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**

None known.

**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:	Oral
Test:	LD50
Result:	5,840 mg/kg

Product/substance	propan-2-ol;isopropyl alcohol;isopropanol
Test method:	OECD 402
Species:	Rabbit
Route of exposure:	Dermal
Result:	>12,800 mg/kg

Product/substance	propan-2-ol;isopropyl alcohol;isopropanol
Test method:	OECD 403
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	>10000 mg/kg

Product/substance	2-butoxyethanol; ethylene glycol monobutyl ether
Species:	Mouse
Route of exposure:	Oral
Test:	LD50
Result:	1230 mg/kg

Product/substance	2-butoxyethanol; ethylene glycol monobutyl ether
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	470 mg/kg

Product/substance	3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>5000 mg/kg

Product/substance	3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one
Species:	Rabbit
Route of exposure:	Dermal



Test:	LD50
Result:	>5000 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:	Oral
Test:	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	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

#### Skin corrosion/irritation

Product/substance	Quaternary ammonium compounds, dicoco alkyl dimethyl, 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 alkyl dimethyl, 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 alkyl dimethyl, 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)

#### 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: 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

## 12.2. Persistence and degradability

Product/substance Quaternary ammonium compounds, dicoco alkyl dimethyl, 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

## 12.3. Bioaccumulative potential

Product/substance Quaternary ammonium compounds, dicoco alkyl dimethyl, 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

## 12.4. Mobility in soil

propan-2-ol;isopropyl alcohol;isopropanol  
LogKoc = 1.1, High mobility potential.

## 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

## 12.6. Other adverse effects

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. (Quaternary ammonium compounds, dicocooalkyldimethyl, chlorides)	Transport hazard class: 8 Label: 8 Classification code: C9 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1760	CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds, dicocooalkyldimethyl, chlorides)	Transport hazard class: 8 Label: 8 Classification code: C9 	II	No	Limited quantities: 1 L EmS: F-A S-B See below for additional information.
IATA	UN1760	CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds, dicocooalkyldimethyl, chlorides)	Transport hazard class: 8 Label: 8 Classification code: C9 	II	No	See below for additional information.

\* Packing group

\*\* Environmental hazards

### Additional information

This product is within scope of the regulations of transport of dangerous goods. Negative results have been obtained in the sustained combustibility test L.2, Part III, section 32 of the UN RTDG, Manual of Tests and Criteria.

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

<i>Restrictions for application:</i>	Restricted to professional users. People under the age of 18 shall not be exposed to this product.
<i>Demands for specific education:</i>	No specific requirements.
<i>Control of major hazard facilities:</i>	Not applicable.
<i>Additional information:</i>	Not applicable.
<i>The Australian Inventory of Industrial Chemicals (AIIC):</i>	2-butoxyethanol; ethylene glycol monobutyl ether is listed Quaternary ammonium compounds, dicoco alkyl dimethyl, chlorides is listed propan-2-ol; isopropyl alcohol; isopropanol is listed Quaternary ammonium compounds, dicoco alkyl dimethyl, chlorides is listed Amines, tallow alkyl, ethoxylated is listed 2-butoxyethanol; ethylene glycol monobutyl ether is listed 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one is listed 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 is listed Citronellol is listed
<i>SUSMP:</i>	Schedule 5. Caution.
<i>Sources:</i>	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.

### 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.  
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