


<b>SAFETY DATA SHEET</b>	
<b>KOALA AUTO KARE</b>	<b>LEMON ZEST DISINFECTANT</b>
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SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION			
<b>Trade Name:</b>	<b>LEMON ZEST DISINFECTANT</b>		
<b>SUPPLIER:</b>	BRS AUSTRALIA PTY LTD		
<b>ADDRESS:</b>	P.O. Box 1071 Ashmore City, QLD 4214		
<b>TELEPHONE:</b>	07 3807 7400	<b>FAX:</b>	07 3807 7491
<b>EMERGENCY PHONE:</b>	13 1126 in Australia	<b>ABN:</b>	19 158 969 754
<b>Substance:</b>	Water Based Liquid	<b>Product Use:</b>	Disinfectant
<b>Creation Date:</b>	June 2017	<b>Revision Date:</b>	June 2022
<b>Code:</b>	ODTSDIS/XDIS		

SECTION 2 – HAZARDS IDENTIFICATION	
<b>Classification of the substance or mixture</b>	
<b>Poisons Schedule</b>	Not scheduled
<b>Dangerous Goods</b>	Not classified as Dangerous Goods
<b>GHS Classification</b>	Eye Irritation Category 2A
<b>Label elements</b>	
<b>GHS label pictograms</b>	 <p style="text-align: center;">GHS 07 EXCLAMATION MARK</p>
<b>Signal word</b>	<b>WARNING</b>
<b>Hazard statement(s)</b>	
<b>H319</b>	Causes serious eye irritation
<b>Precautionary statement(s): General</b>	
<b>P102</b>	Keep out of reach of children.
<b>P103</b>	Read label before use.
<b>Precautionary statement(s): Prevention</b>	
<b>P264</b>	Wash skin thoroughly after handling.
<b>P280</b>	Wear eye protection/face protection.
<b>Precautionary statement(s): Response</b>	
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P337 + P313</b>	If eye irritation persists: Get medical advice/attention.
<b>Precautionary statement(s): Storage</b>	
	None allocated
<b>Precautionary statement(s): Disposal</b>	
	None allocated
<b>Note</b>	
<b>IMPORTANT</b>	This SDS and the Hazard Classifications contained therein, only apply to the product in its concentrated form, as supplied. When diluted to 1:3 or greater they no longer apply. However, good hygiene and housekeeping practices should be adhered to.

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## SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Proportion:
Poly(oxy-1,2-ethanediyl), .alpha.-(2-propylheptyl)-.omega.hydroxy-	160875-66-1	<10 % w/w
BENZYL C12-16 ALKYLDIMETHYLAMMONIUM CHLORIDE	63449-41-2	<10% w/w
Ingredients determined to be non-hazardous	various	< 10 % w/w
Water	7732-18-5	To 100 % w/w

NOTE: Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances", or have been found NOT to meet the criteria of a dangerous substance as defined in the GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) , 4th edition United Nations 2011. Listed ingredients may be below the cut-off concentrations for classification as hazardous, but are listed for information purposes and for additive effects.

## SECTION 4 – FIRST AID MEASURES

<b>Inhalation</b>	Remove victim to fresh air away from exposure. Obtain medical attention if symptoms occur.
<b>Skin contact</b>	Immediately wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. Seek medical advice (e.g. doctor) if irritation, burning or redness persists.
<b>Eye contact</b>	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If symptoms persist, seek medical attention.
<b>Ingestion</b>	Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek medical advice (e.g. doctor).
<b>Advice to Doctor</b>	Treat symptomatically.
<b>Scheduled Poisons</b>	Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 0800 764 766).
<b>First Aid Facilities</b>	Eye wash station. Normal washroom facilities.

## SECTION 5 – FIRE FIGHTING MEASURES

<b>Fire and Explosion Hazards</b>	Non flammable liquid. However, on evaporation of the aqueous component, the residual material may burn.
<b>Extinguishing Media</b>	Use an extinguishing media suitable for surrounding fires. Use carbon dioxide (CO2) fire extinguisher, water fog, foam or fine water spray.
<b>Fire Fighting</b>	Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition.
<b>Flash Point</b>	None

## SECTION 6 – ACCIDENTAL RELEASE MEASURES




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<b>Emergency Procedures</b>	<p>Minor spills do not normally need any special clean-up measures – rinse with water.</p> <p>In the event of a major spill, prevent spillage from entering drains or water courses. Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. As a water based product, if spilt on electrical equipment the product will cause short-circuits. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.</p>
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<b>SECTION 7 – HANDLING AND STORAGE</b>	
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<b>Handling</b>	<p>Avoid eye contact with concentrate. Wear protective clothing when risk of exposure occurs. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered. Launder contaminated clothing before re-use.</p>
<b>Storage</b>	<p>Store in a cool, dry, well-ventilated area, out of direct sunlight. Protect from freezing. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.</p>

<b>SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION</b>	
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<b>Exposure Limits</b>	<p>National Occupational Exposure Limits, as published by National Occupational Health &amp; Safety Commission:</p> <p><b>Time-weighted Average (TWA):</b> None established for product.</p> <p><b>Short Term Exposure Limit (STEL):</b> None established for product.</p>
<b>Ventilation</b>	No special requirements.
<b>Personal Protective Equipment</b>	Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. The following protective equipment should be available;
<b>Eye Protection</b> 	<p>Generally not required for typical applications with diluted solutions as per label directions. Safety glasses with full face shield should be used for handling concentrate in quantity, cleaning up spills, decanting, etc. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.</p>
<b>Hand Protection</b> 	<p>Generally not required for typical applications with diluted solutions as per label directions. Wear gloves of impervious material such as butyl rubber, natural latex, neoprene, PVC and nitrile – to handle in quantity, clean up spills, decanting, etc. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.</p>
<b>Body Protection</b> 	<p>Generally not required for typical applications with diluted solutions as per label directions. Suitable protective workwear, e.g. rubber or plastic apron, sleeves, boots and cotton overalls buttoned at neck and wrist are recommended. Chemical resistant apron is recommended where large quantities are handled.</p>
<b>Respirator</b>	Not required for typical applications with diluted solutions as per label directions.

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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Non -viscous liquid	<b>Colour</b>	Yellow
<b>Odour</b>	Characteristic odour	<b>Specific Gravity</b>	1.0 – 1.02 @ 25 °C
<b>Boiling Point</b>	Approximately 100 °C	<b>Freezing Point</b>	Approximately 0 °C
<b>Vapour Pressure</b>	Not available	<b>Vapour Density</b>	Not available
<b>Flash Point</b>	Not flammable	<b>Flammable Limits</b>	none
<b>Water Solubility</b>	Miscible in all proportions	<b>pH</b>	9.0 – 10.0 neat
<b>Volatile Organic Compounds (VOC)</b>	0 % v/v	<b>Per Cent Volatile</b>	Ca 85 % v/v
<b>Viscosity</b>	Not available	<b>Odour Threshold</b>	Not available

## SECTION 10 – STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable at normal temperatures and pressure.
<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatibilities</b>	Reducing agents, oxidizing agents.
<b>Hazardous Decomposition</b>	Thermal decomposition may result in the release of toxic and/or irritating fumes.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH EFFECTS

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:

<b>Inhalation</b>	Not an inhalation hazard.
<b>Skin contact</b>	Properly diluted solutions not expected to be irritating to skin. Prolonged contact with concentrate may be irritating to skin. The symptoms may include redness, itching and swelling.
<b>Eye contact</b>	Concentrated product causes eye irritation. Eye contact with concentrate may cause stinging, blurring, tearing.
<b>Ingestion</b>	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
<b>Chronic exposure</b>	No known effects.
<b>Toxicology Information</b>	Not toxic, based on ingredients. Oral LD50 (calculated) : >6000 mg/kg
<b>Carcinogen Status</b>	
<b>NOHSC</b>	No significant ingredient is classified as carcinogenic by NOHSC.
<b>NTP</b>	No significant ingredient is classified as carcinogenic by NTP.
<b>IARC</b>	No significant ingredient is classified as carcinogenic by IARC.
<b>Respiratory sensitisation</b>	Not expected to be a respiratory sensitizer.
<b>Skin Sensitisation</b>	Not expected to be a skin sensitizer.
<b>Germ cell mutagenicity</b>	Not considered to be a mutagenic hazard.
<b>Reproductive Toxicity</b>	Not considered to be toxic to reproduction.
<b>STOT-single exposure</b>	Not expected to cause toxicity to a specific target organ.
<b>STOT-repeated exposure</b>	Not expected to cause toxicity to a specific target organ.
<b>Aspiration Hazard</b>	Not expected to be an aspiration hazard.

## SECTION 12 – ECOLOGICAL INFORMATION

<b>Eco-toxicity Product (as sold)</b>	Harmful to aquatic life with long-lasting effects. Notes 7&9&10. Chronic NOEC or EC (Fish, crustacea, algae) <= 1 mg/L. Acute Aquatic Toxicity - 3 /Chronic Aquatic Toxicity – 3 Acute Aquatic Toxicity (Calculated) LC50: 18 - 60 mg/L.
<b>Eco-toxicity</b>	Not harmful to aquatic life. LC50 > 100mg/L.

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Product (at use dilution 1:100 rinse)	Acute Aquatic Toxicity (Calculated) LC50: 1800 - 6000 mg/L. Acute Aquatic Toxicity NOT HAZARDOUS
Persistence and degradability	Biodegradable, based on ingredients.
Bio accumulative potential	No bioaccumulation is expected.
Mobility in soil	Due to its physico-chemical characteristics, highly mobile in the environment and will partition to the aquatic compartment.
Other adverse effects	Not available
Environmental Protection	Do not discharge this material into waterways.

### SECTION 13 – DISPOSAL CONSIDERATIONS

	Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.
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### SECTION 14 – TRANSPORT INFORMATION

Labels Required	
ADG	Not classified as Dangerous Goods.
IMDG Marine Pollutant	No
HAZCHEM	None allocated.
Land Transport (ADG)	
UN Number	None allocated.
ADG Code	None allocated.
HAZCHEM Code	None allocated.
Special Provisions	None allocated.
Packing Group	None allocated.
Packaging Method	None allocated.
Segregation	None allocated.

### SECTION 15 – REGULATORY INFORMATION

GHS Classification	Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
SUSMP	Not scheduled
ADG Code	Not DG
AICS	All ingredients present on AICS.

### SECTION 16 – OTHER INFORMATION

Issue Date	4 <sup>th</sup> June 2017
Version Number	V 2.0 – GHS classification.
Abbreviations and acronyms	<p><b>ADG Code:</b> Australian Code for the Transport of Dangerous Goods by Road and Rail.</p> <p><b>AICS:</b> Australian Inventory of Chemical Substances.</p> <p><b>CAS Number:</b> Chemical Abstracts Service Registry Number.</p> <p><b>GHS:</b> Globally Harmonized System of Classification and Labelling of Chemicals</p> <p><b>HAZCHEM:</b> An emergency action code of numbers and letters which gives information to emergency services.</p> <p><b>HSIS:</b> Hazardous Substances Information System</p>



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	<p><b>IARC:</b> International Agency for Research on Cancer.</p> <p><b>NOHSC:</b> National Occupational Health and Safety Commission.</p> <p><b>NTP:</b> National Toxicology Program (USA).</p> <p><b>SDS:</b> Safety Data Sheet</p> <p><b>STEL:</b> Short Term Exposure Limit.</p> <p><b>SUSMP:</b> Standard for the Uniform Scheduling of Medicines and Poisons.</p> <p><b>TWA:</b> Time Weighted Average.</p> <p><b>UN Number:</b> United Nations Number.</p>
<b>Literature references</b>	<p>Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice ( Safe Work Australia)</p> <p>GHS Hazardous Chemical Information List (Safe Work Australia)</p> <p>Guidance on the Classification of Hazardous Chemicals under the WHS Regulations.</p> <p>Global Harmonized System of Classification and Labelling of Chemicals (GHS)</p> <p>“Australian Exposure Standards”. Safework Australia</p> <p>Australian Code For The Transport Of Dangerous Goods By Road And Rail</p> <p>Standard for the Uniform Scheduling of Medicines and Poisons</p> <p>Material Safety Data Sheets – individual raw materials – Suppliers</p> <p>HSIS – Hazardous Substance Information System – National Safe Work Australia Data Base.</p> <p>HCIS – Hazardous Chemical Information System – National Safe Work Australia Data Base.</p>
<b>Disclaimer</b>	<p>This MSDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.</p>

**End of SDS**