

### SECTION 1 – IDENTIFICATION OF THE PRODUCT AND SUPPLIER

<b>Product Name</b>	<b>DuroKleen</b>		
<b>Other Identification</b>	Long-term Hospital Grade Disinfectant		
<b>Chemical Ingredients</b>	ACTIVE	Benzalkonium chloride	0.5% (%w/v)
		Hydrogen Peroxide	0.2% (%w/v)
	INACTIVE	Inert ingredients	99.3% (%w/v)
<b>Product Code/s</b>	Nil		
<b>Recommended Use</b>	Apply on water-safe surfaces as a surface antimicrobial protection by spraying, fogging or soaking		
<b>Supplier/Manufacturer</b>	Durokleen Global Pty Ltd ACN 630 884 105		
<b>Postal Address</b>	Suite 401, 55 Plaza Parade, Maroochydore Queensland 4558 Australia		
<b>Internet Address</b>	Email: <a href="mailto:contact@durokleen.com">contact@durokleen.com</a>	Website: <a href="http://www.durokleen.com">www.durokleen.com</a>	
<b>Telephone Contact</b>	In Australia: 1300 911 695 , International: +61 426 477 304		
<b>Emergency Telephone</b>	In Australia: 000 (all hours)		
<b>Poisons Information</b>	In Australia: 13 11 26 (all hours)		
<b>Compliance Guidelines.</b> This Safety Data Sheet (SDS) is issued by the Supplier/Manufacturer (Durokleen) in accordance with the standards guidelines published by Safe Work Australia, the Statutory Australian Government Agency established under the Safe Work Australia Act 2008. The information it contains must not be altered, added to, or deleted. Durokleen will not accept responsibility for any changes made to this SDS by any other person or organisation. Durokleen will issue a new SDS if and when there is a change in product specifications and/or Safe Work Australia standards, codes, guidelines, or regulations.			
<b>SDS Date of Issue:</b>	September 2020	<b>Version Number:</b>	1.8

### SECTION 2 – HAZARDS IDENTIFICATION

<b>Classification</b>	Considered NON-HAZARDOUS by the 2012 OSHA Hazard Communication Standard		
<b>GHS Label Elements</b>	Signal Word	CAUTION	
	Hazard Statement	Not hazardous	
	Physical State	Aqueous solution	
	Appearance	Clear liquid	
	Odour	None	
<b>Precautionary Statements</b>	Prevention	Avoid direct contact with eyes and prolonged direct contact with skin. Wash hands, face and exposed skin after handling.	
	Eye/face protection	No specific eye/face protection measures are noted, however safety goggles are advisable for (eg) fogging operations and/or handling or decanting large product volumes (eg) 200L, 1000L IBC.	
	Skin protection	No specific skin protection measures are noted, however gloves and protective clothing are advisable for (eg) fogging operations and/or handling or decanting large product volumes (eg) 200L, 1000L IBC.	
	Response	IF IN EYES: Hold affected eyes open and rinse gently with clean water for 15-20 minutes. If you are wearing contact lenses, remove lenses after rinsing eyes for 5 minutes, then continue rinsing eyes 10-15 minutes.	
	Storage	Keep well sealed, beyond the reach of children	
	Disposal	May be disposed of safely in accordance with applicable federal, state, and local regulations	
	<b>Hazards not otherwise classified (HNOC)</b>	None	
<b>Other Information</b>	In concentrated liquid form only is TOXIC TO FISH; see also SECTION 6		
<b>Chemical Interactions</b>	Not applicable		

**SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS**

Chemical Ingredients	CAS-No	%w/v
3-(trimethoxysilyl) propyldimethyloctedecyl ammonium chloride	27668-52-6	*Trade Secret

**SECTION 4 – FIRST AID MEASURES**

<b>FIRST AID</b>	If poisoning occurs, consult a medical doctor or call the Australian Poison Information Hotline 24/7 on 13 11 26. Have the SDS or product label with you when seeking medical advice or treatment.
<b>IF IN EYES</b>	Hold affected eyes open and rinse gently with clean water for 15-20 minutes. If wearing contact lenses, remove them after rinsing eyes for 5 minutes, then continue rinsing eyes 10-15 minutes.
<b>Most important symptoms and effects, both acute and delayed:</b>	
1.	Causes moderate eye irritation – avoid direct contact with eyes, wear eye protection if fogging
2.	Prolonged exposure may cause skin irritation – wash thoroughly after exposure
<b>Indication of any immediate medical attention and special treatment needed:</b>	
<b>Notes to Physician</b>	Treat symptomatically

**SECTION 5 – FIRE FIGHTING MEASURES**

<b>Suitable extinguishing media</b>	N/A
<b>Unsuitable extinguishing media</b>	N/A
<b>Specific Hazards Arising from the Chemical</b>	The product may cause moderate eye irritation
<b>Explosion Data</b>	Sensitivity to Mechanical Impact – None.
	Sensitivity to Static Discharge – None.
<b>Protective equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions, protective equipment and emergency procedures:</b>	
<b>Personal Precautions</b>	May cause moderate eye irritation – wear eye protection if fogging
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
<b>Environmental Precautions:</b>	In its concentrated form, this product is toxic to aquatic vertebrates (fish) and invertebrates, molluscs (mussels, oysters, etc), and crustaceans (prawns, crabs, crays, etc). DO NOT allow concentrated product to enter storm drains, lakes, ponds, dams or streams, etc. See SECTION 12 for ecological Information
<b>Methods and material for containment and cleaning up:</b>	
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so
<b>Methods for Cleaning Up</b>	Absorb and containerize. Use ionic laundry soap to deactivate. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material

**SECTION 7 – HANDLING, STORAGE, SAFE USAGE**

<b>Precautions for safe usage and handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Do not eat, drink or smoke when using this product
<b>Conditions for safe storage</b>	Store away from children. Reseal containers tightly after use. Store upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration
<b>Incompatibilities</b>	Do not contaminate water, food or feed by the product's use, storage or disposal

**SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Control parameters:			
Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Benzalkonium chloride	None	None	None
Hydrogen peroxide	None	None	None
3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride	None	None	None

*ACGIH TLV = American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL = Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH = Immediately Dangerous to Life or Health.*

Appropriate engineering controls:	
Engineering measures	Eyewash stations, hand wash facilities

Individual protection measures, such as personal protective equipment:	
Eye/Face/Skin Protection	If splashing is likely: wear safety glasses or goggles or face shield and/or protective clothing

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Physical Properties:				
Physical State	Appearance	Colour	Odour	Odour threshold
Thin liquid	Clear	Clear	None	No information

Chemical Properties:		
Property	Value	Remarks/Method
pH	-7	None known
Melting/freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	<b>Not flammable</b>	None known
Flammability limits	<b>Not flammable</b>	None known
Evaporation rate	No data available	None known
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific gravity	<b>-1.1</b>	None known
Water solubility	<b>Soluble</b>	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive Properties	<b>Not explosive</b>	None known
Oxidizing Properties	No data available	None known

Other information:		
Softening Point	No data available	None known
VOC content (%)	No data available	None known
Particle size	No data available	None known
Particle Size distribution	No data available	None known

SECTION 10 – STABILITY AND REACTIVITY	
Reactivity	Not applicable
Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous Reactions	None under normal processing
Conditions to avoid	None known based on information provided
Incompatible materials	Not applicable
Hazardous Decomposition Products	None known based on information provided

SECTION 11 – TOXICOLOGICAL INFORMATION				
<b>Information on likely routes of exposure:</b>				
Eye Contact	May cause moderate eye irritation			
<b>Component information:</b>				
Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
3-(trihydroxysilyl) propyldimethyloctedecyl ammonium chloride	5000 mg/kg (Rat)	>10000 mg/kg (Rabbit)		
<b>Information on toxicological effects:</b>				
Symptoms	May cause moderate eye irritation			
<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>				
Sensitization	None			
Mutagenic effects	None			
Carcinogenicity	Refer to the table below			
<b>The following table indicates whether each agency has listed any ingredient as a carcinogen:</b>				
Chemical Name	ACGIH	IARC*	NTP	OSHA
3-(trihydroxysilyl) propyldimethyloctedecyl ammonium chloride		Group 3		
* IARC = International Agency for Research on Cancer. Group 3 = Not Classifiable as to Carcinogenicity in Humans				
Reproductive Toxicity	No information available			
STOT - single exposure	No information available			
STOT - repeated exposure	No information available			
Chronic Toxicity	Carcinogenic potential unknown			
Target Organ Effects	Eyes			
Aspiration Hazard	No information available			
<b>Numerical measures of toxicity - Product Information:</b>				
The following values are calculated based on chapter 3.1 of the GHS document				
ATEmix (oral)	60 g/kg			
ATEmix (inhalation-dust/mist)	60 g/kg			

SECTION 12 – ECOLOGICAL INFORMATION		
Eco-toxicity	TOXIC TO FISH	Do not allow the product in its concentrated form to enter storm drains, lakes, ponds, dams or streams. See SECTION 6 for more information.
Persistence and Biodegradability	No information available	
Bioaccumulation	No information available	
Other adverse effects	No information available	

SECTION 13 – DISPOSAL CONSIDERATIONS	
<b>Disposal methods</b>	Dispose of in accordance with all applicable federal, state, and local regulations. Do not contaminate food or feed by disposal of this product.
<b>Contaminated Packaging</b>	Dispose of safely and in accordance with all applicable federal, state, and local regulations.

SECTION 14 – TRANSPORT INFORMATION	
<b>DOT</b>	
Not regulated	Not Required
<b>TDG</b>	
<b>UN-No</b>	Not Required
<b>Proper Shipping Name</b>	Not Required
<b>Hazard Class</b>	Not Required
<b>Packing Group</b>	Not Required
<b>Description</b>	Not Required
<b>ICAO</b>	
<b>UN-No</b>	Not Required
<b>Proper Shipping Name</b>	Not Required
<b>Hazard Class</b>	Not Required
<b>Packing Group</b>	Not Required
<b>Description</b>	Not Required
<b>IATA</b>	
<b>UN-No</b>	Not Required
<b>Proper Shipping Name</b>	Not Required
<b>Hazard Class</b>	Not Required
<b>Packing Group</b>	Not Required
<b>Description</b>	Not Required
<b>IMDG/IMO</b>	
<b>UN-No</b>	Not Required
<b>Proper Shipping Name</b>	Not Required
<b>Hazard Class</b>	Not Required
<b>Packing Group</b>	Not Required
<b>EmS No.</b>	Not Required
<b>Marine Pollutant</b>	Not Required
<b>Description</b>	Not Required

SECTION 15 – REGULATORY INFORMATION	
<b>Chemical Inventories</b>	
<b>TSCA</b>	All components of this product are either on the TSCA 8(b) Inventory or are otherwise exempt from listing
<b>DSL/NDSL</b>	All components are on the DSL or NDSL
<b>US Federal Regulations</b>	
<b>SARA 313</b>	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372
<b>SARA 311/312 Hazard Categories</b>	
<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No
<b>EPA Statement</b>	
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under USA federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:	
<b>CAUTION</b>	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice
<b>US State Regulations</b>	
<b>California Proposition 65</b>	This product does not contain any Proposition 65 chemicals
<b>International Regulations</b>	Not applicable

SECTION 16 – OTHER RELEVANT INFORMATION			
<b>NFPA</b>			
<b>Health Hazard</b>	<b>Flammability</b>	<b>Instability</b>	<b>Physical &amp; Chemical Hazards</b>
0	0	0	–
<b>HMIS</b>			
<b>Health Hazard</b>	<b>Flammability</b>	<b>Physical Hazard</b>	<b>Personal Protection</b>
0	0	0	0
<b>Prepared by:</b>	Durokleen Global Pty Ltd ACN 630 884 105		
<b>Revision Date</b>	<b>Version</b>	<b>Note</b>	<b>Reference</b>
SEPTEMBER 2020	1.8	Updated	WG
<b>General Disclaimer</b>			
The information provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge, information and belief at the date of its publication. The provided information is intended as a guidance only for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates to the specifically designated material only and unless specified in the text may not be valid for such material used in any particular process or in combination with any other material/s.			
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