

### **KLEEN MCT103**

#### 1. Identification

Product identifier

**KLEEN MCT103** 

Other means of identification None.

Recommended use of the chemical and restrictions on useRecommended useReverse Osmosis membrane cleanerRestrictions on useNot available.

#### Company/undertaking identification

VEOLIA WATER TECHNOLOGIES & SOLUTIONS AUSTRALIA PTY LTD 103 Raubers Road, Northgate, QLD 4013 Australia C/o Buddle Findlay, Level 18, Hsbc Tower, 188 Quay Street, Auckland, 1010, New Zealand Tel: 1800 064 140 (AUS) 0800 945635 (NZ) Email: vtc.vwts.apacproductregulatory.all@veolia.com

#### **Emergency telephone**

+61-290372994 (Aust) +64-98010034 (NZ)

#### 2. Hazard(s) identification

Classification of the hazardous	s chemical	
Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 1B
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Not classified.	

#### Label elements, including precautionary statements

Hazard symbol(s)

#### Corrosion Signal word Danger Hazard statement(s) Causes severe skin burns and eye damage. Causes serious eye damage. Precautionary statement(s) Prevention Do not breathe mist/vapors. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. Store locked up. Storage Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal Supplemental information None. Other hazards which do not None known. result in classification



### **KLEEN MCT103**

#### 3. Composition/information on ingredients

**Mixtures** 

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Hydroxyacetic acid	79-14-1	10- <30
N-hydroxyethylenediamine triacetic acid trisodium salt	139-89-9	10- <30

#### 4. First-aid measures

#### Description of necessary first aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Personal protection for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Symptoms caused by exposure	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Medical attention and special treatment	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

#### 5. Fire-fighting measures

Extinguishing media Suitable extinguishing media	Foam. Powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for fire fighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Hazchem code	None.
General fire hazards	No unusual fire or explosion hazards noted.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

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

For non-emergency personnel	Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
For emergency responders	Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

## 

## SAFETY DATA SHEET

### **KLEEN MCT103**

Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.	
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.	
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS	
7. Handling and storage		
Precautions for safe handling	Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.	
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).	
8. Exposure controls and p	personal protection	
Control parameters	Follow standard monitoring procedures.	
Occupational exposure limits	No exposure limits noted for ingredient(s).	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.	
Individual protection measures, f Eye/face protection	for example personal protective equipment (PPE) Wear safety glasses with side shields (or goggles) and a face shield.	
Skin protection Hand protection	Wear appropriate chemical resistant gloves.	
Other	Wear appropriate chemical resistant clothing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

#### 9. Physical and chemical properties

Appearance	Liquid
Physical state	Liquid.
Form	Liquid.
Color	Colorless to amber
Odor	Slight acetic acid odor
Odor threshold	Not available.
pH (concentrated product)	3.4 Neat
Melting point/freezing point	-21 °C
Initial boiling point and boiling range	99 °C
Flash point	> 93 °C P-M(CC)
Evaporation rate	Slower than Ether
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	18 mmHg
Vapor pressure temp.	21 °C

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## SAFETY DATA SHEET

### **KLEEN MCT103**

Vapor density	>1
Relative density	1.35
Relative density temperature	21 °C
Solubility(ies)	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	28 mPa.s
Viscosity temperature	21 °C
Other physical and chemical pa	arameters
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
pH in aqueous solution	3.3 (5% Solution)
Pour point	-18 °C
VOC	10 % ESTIMATED
10. Stability and reactivity	/
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.
11. Toxicological informa	tion
Information on possible routes	of exposure
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Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.
Symptoms related to exposure	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Acute toxicity

Product	Species	Test Results
KLEEN MCT103		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg (Calculated according to GHS additivity formula)
Inhalation		
LC50	Rat	> 5 mg/l, 4 Hours (Calculated according to GHS additivity formula)
Oral		
LD50	Rat	4923 mg/kg (Calculated according to GHS additivity formula)



### **KLEEN MCT103**

Components	Species	Test Results	
Hydroxyacetic acid (CAS 79-14-1)			
Acute			
Inhalation			
LC50	Rat	3.6 mg/L, 4 Hour	
Oral			
LD50	Rat	2040 mg/kg	
N-hydroxyethylenediamine triacetic	c acid trisodium salt (CAS 139-89-9)		
<u>Acute</u>			
Inhalation			
LC50	Rat	> 10.05 mg/l, 4 Hour	
Oral			
LD50	Rat	1780 mg/kg	
Skin corrosion/irritation	Causes severe skin burns and eye damage.		
Serious eye damage/irritation	Causes serious eye damage.		
Respiratory or skin sensitization			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Risk of cancer cannot be excluded with prolonged exposure.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	May cause respiratory irritation.		
Specific target organ toxicity - repeated exposure	Not available.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged exposure may cause chronic effects.		

### 12. Ecological information

Ecotoxicity

Product		Species	Test Results	
Aquatic				
Crustacea	LC50	Daphnia magna	1890 mg/L, 48 hour (pH adjusted)	
	NOEL	Daphnia magna	1060 mg/L, 48 hour (pH adjusted)	
Fish	0% Mortality	Fathead Minnow	2000 mg/L, 96 hour (pH adjusted)	
Persistence and degradability		No data is available on the degradability of any ingredients in the mixture. No data is available on the degradability of any ingredients in the mixture.		
- COD (mgO2/g)	335 (calculate	• •		
- BOD 5 (mgO2/g)	70 (calculate	70 (calculated data)		
- BOD 28 (mgO2/g)	105 (calculate	105 (calculated data)		
<ul> <li>Closed Bottle Test (% Degradation in 28 days)</li> </ul>	23 (calculated	23 (calculated data)		
- Zahn-Wellens Test (% Degradation in 28 days)	27 (calculate	27 (calculated data)		
- TOC (mg C/g)	150 (calculate	150 (calculated data)		
Bioaccumulative potential				
Partition coefficient n-octanol / water (log Kow) Hydroxyacetic acid	)	-1.11		



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Mobility in soil	No data available for this product.		
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.		
13. Disposal considerations			
Disposal methods	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.		

Disposal methous	conect and reclaim of dispose in sealed containers at incensed waste disposal site.
Residual waste	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### 14. Transport information

ADG	
UN number	3265
UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (HYDROXYACETIC ACID)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	Not available.
Hazchem code	2X
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IATA	
UN number	3265
UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Hydroxyacetic acid)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	153
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Hydroxyacetic acid)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
· ·	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.
ADG	





KLEEN MCT103



15. Regulatory information

#### Safety, health and environmental regulations

National regulations

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals. Group Standard - Cleaning Products - Corrosive HSR002526

#### Australia Medicines & Poisons Appendix A Poisons schedule number not allocated. Australia Medicines & Poisons Appendix B Poisons schedule number not allocated. Australia Medicines & Poisons Appendix D Poisons schedule number not allocated. Australia Medicines & Poisons Appendix E Hydroxyacetic acid (CAS 79-14-1) Australia Medicines & Poisons Appendix F Hydroxyacetic acid (CAS 79-14-1) Australia Medicines & Poisons Appendix G Poisons schedule number not allocated. Australia Medicines & Poisons Appendix H Poisons schedule number not allocated. Australia Medicines & Poisons Appendix I Poisons schedule number not allocated. Australia Medicines & Poisons Appendix J Poisons schedule number not allocated. Australia Medicines & Poisons Appendix K Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 10 Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 2 Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 3 Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 4 Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 5 Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 6 Hydroxyacetic acid (CAS 79-14-1) Australia Medicines & Poisons Schedule 7 Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 8 Poisons schedule number not allocated. Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.



### **KLEEN MCT103**

High Volume Industrial Che	micals (HVIC)	
Not listed.		
	ting Substances (Customs(Prohibited imports) Regulations 1950	s, Schedule 10, as amended)
Not listed.	v (NPI) substance reporting list	
Not listed.	(ari) substance reporting ist	
Prohibited Carcinogenic Su	bstances	
Not regulated.		
	ional Model Regulation for the control of Workplace Hazardous nded)	Substances, Schedule 2
Not listed.		
Resricted Importation of Or	ganochlorine Chemicals (Customs(Prohibited Imports) Regulation	ons 1956, Schedule 9)
Not listed.		
Restricted Carcinogenic Su	bstances	
Not regulated.		
International regulations		
Stockholm Convention		
Not applicable.		
Rotterdam Convention		
Not applicable. Kyoto protocol		
Not applicable.		
Montreal Protocol		
Not applicable.		
Basel Convention		
Not applicable.		
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No
*A "Yes" indicates that all compo A "No" indicates that one or more	nents of this product comply with the inventory requirements administered by components of the product are not listed or exempt from listing on the inven	the governing country(s) tory administered by the governing

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information

Issue date	09-December-2020
Revision date	21/04/2023
Key abbreviations or acronyms used	AICIS: Australian Inventory of Industrial Chemicals.
References:	No data available



### SAFETY DATA SHEET KLEEN MCT103

Revision information	Composition / Information on Ingredients: Disclosure Overrides First-aid measures: Eye contact Exposure controls and personal protection: Exposure guidelines Exposure controls and personal protection: Hand protection Stability and reactivity: Incompatible materials Toxicological information: Acute toxicity Disposal considerations: Residual waste Other information: Bibliography Other information: Key abbreviations or acronyms used HazReg Data: International Inventories GHS: Classification