



# SAFETY DATA SHEET

# **KLEEN MCT103**

#### 1. Identification

Product identifier KLEEN MCT103

Other means of identification None.

Recommended use of the chemical and restrictions on use

**Recommended use** Reverse Osmosis membrane cleaner

**Restrictions on use** Not available.

#### Company/undertaking identification

VEOLIA WATER TECHNOLOGIES & SOLUTIONS

**AUSTRALIA PTY LTD** 

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#### **Emergency telephone**

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## 2. Hazard(s) identification

#### Classification of the hazardous 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.

Storage Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information

Other hazards which do not

result in classification

None known.

None.

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### 3. Composition/information on ingredients

#### **Mixtures**

| Identity of chemical ingredients                       | CAS number and other<br>unique identifiers | Concentration of<br>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

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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 Do not breathe mist/vapors. Do not touch

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.

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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 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, for example personal protective equipment (PPE)

Eye/face protection 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 thresholdNot available.pH (concentrated product)3.4 NeatMelting point/freezing point-21 °CInitial boiling point and boiling99 °C

range

Flash point > 93 °C P-M(CC)

Evaporation rate Slower than Ether

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 18 mmHg

Vapor pressure temp. 21 °C

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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 temperatureNot available.Decomposition temperatureNot available.Viscosity28 mPa.sViscosity temperature21 °C

Other physical and chemical parameters

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 information

#### Information on possible routes of exposure

**Inhalation** May cause irritation to the respiratory system.

Skin contactCauses severe skin burns.Eye contactCauses serious eye damage.IngestionCauses 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 |         |   |
| <u>Acute</u> |         |   |
| Dermal       |         |   |
| LD50         | Rabbit  | > 5000 mg/kg (Calculated according to<br>GHS additivity formula)      |
| Inhalation   |         |   |
| LC50         | Rat     | > 5 mg/l, 4 Hours (Calculated according to<br>GHS additivity formula) |
| Oral         |         |   |
| LD50         | Rat     | 4923 mg/kg (Calculated according to GHS additivity formula)           |



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| Components   | Species  | Test Results         |  |
|--|--|----------------------|--|
| Hydroxyacetic acid (CAS 79-14-1)                   |  |                      |  |
| <u>Acute</u>                                       |  |                      |  |
| Inhalation   |  |                      |  |
| LC50   | Rat  | 3.6 mg/L, 4 Hour     |  |
| Oral   |  |                      |  |
| LD50   | Rat  | 2040 mg/kg           |  |
| N-hydroxyethylenediamine triaceti                  | 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                  | 1  |                      |  |
| 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.  |                      |  |
| repeated exposure<br>Aspiration hazard             | Not an aspiration hazard.  |                      |  |

# 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 (calculated data)  |                |                                  |
| - BOD 5 (mgO2/g)  | 70 (calculate  | d data)        |                                  |
| - BOD 28 (mgO2/g)   | 105 (calculated data)  |                |                                  |
| <ul> <li>Closed Bottle Test (%<br/>Degradation in 28 days)</li> </ul> | 23 (calculate  | d data)        |                                  |
| <ul> <li>Zahn-Wellens Test (%<br/>Degradation in 28 days)</li> </ul>  | 27 (calculate  | d data)        |                                  |
| - TOC (mg C/g)  | 150 (calculat  | ed data)       |                                  |
| Bioaccumulative potential   |  |                |                                  |
|   |  |                |                                  |

-1.11

**Partition coefficient** n-octanol / water (log Kow)

Hydroxyacetic acid





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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.

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** 

3265 **UN** number

**UN** proper shipping name Transport hazard class(es)

Corrosive liquid, acidic, organic, n.o.s. (HYDROXYACETIC ACID)

Class 8 Subsidiary risk Ш Packing group

Not available. **Environmental hazards** 

Hazchem code 2X

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IATA** 

**UN number** 

**UN proper shipping name** Transport hazard class(es)

Corrosive liquid, acidic, organic, n.o.s. (Hydroxyacetic acid)

8 Class Subsidiary risk Ш **Packing group Environmental hazards** No.

**ERG Code** 153

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN** number 3265

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Hydroxyacetic acid) **UN** proper shipping name

Transport hazard class(es)

Class 8 Subsidiary risk Ш Packing group **Environmental hazards** 

Marine pollutant Nο F-A. S-B **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

**ADG** 



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IATA; IMDG



### 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.

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On inventory (yes/no)\*

Yes



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#### **High Volume Industrial Chemicals (HVIC)**

Not listed.

Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10, as amended)

Not listed

National Pollutant Inventory (NPI) substance reporting list

Not listed.

**Prohibited Carcinogenic Substances** 

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

**Restricted Carcinogenic Substances** 

Not regulated.

#### International regulations

#### Stockholm Convention

Not applicable.

#### **Rotterdam Convention**

Not applicable.

#### **Kyoto protocol**

Not applicable.

### **Montreal Protocol**

Not applicable.

# **Basel Convention**

Country(s) or region

Not applicable.

### International Inventories

| 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  |

<sup>(</sup>PICCS)

Inventory name

Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

No

Philippine Inventory of Chemicals and Chemical Substances

# 16. Other information

**Philippines** 

Issue date 09-December-2020

Revision date 21/04/2023

**Key abbreviations or acronyms** AICIS: Australian Inventory of Industrial Chemicals.

used

References: No data available

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<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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).



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**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

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