



Government of **Western Australia**  
Department of **Health**

# Materials, products and substances in contact with drinking water

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# Materials, products and substances in contact with drinking water

## Introduction

Materials, products and substances used to collect, contain, control or treat water may also contaminate drinking water<sup>4</sup>. The “*Australian Drinking Water Guidelines*”<sup>5</sup> encourages the protection of drinking water from catchment to consumer. One of the important factors influencing the quality of drinking water provided to consumers is the effect of various materials, products and substances that may come into contact with the drinking water as it is collected and supplied throughout the distribution system.

The Department of Health (Western Australia) only supports the use of any material, product or substance in contact with drinking water if it has been approved for its intended purpose. Schedules have been created for the following specific purposes:

## Schedule 4 – Chemicals and Materials Assessed – Not Approved

Schedule 4 lists chemicals, products and materials that have been presented to the Department of Health and have not been approved for use in association with any drinking water application in Western Australia.

## Schedule 5 – Approved Materials

Schedule 5 lists materials and products (linings, paints, coatings, resins, epoxies, fittings etc) compliant to Australian Standard ‘*AS/NZS 4020 Testing of products for use in contact with drinking water*’ that have been noted as in use, or assessed and approved by the Department of Health WA for drinking water applications (for international equivalent certifications).

Products must be used in accordance with the manufacturer’s recommendations.

## Schedule 6 – Materials Assessed – Approved Subject to Condition

Schedule 6 lists products that are used during bore construction or maintenance, and have been approved subject to the conditions that bores must be offline during construction, bores must be thoroughly flushed to waste prior to the production of drinking water and water quality is to be tested and assessed before the bore is commissioned. Products must be used in accordance with the manufacturer’s recommendations.

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<sup>4</sup> For the purposes of this document, the term ‘potable water’ has the same meaning as ‘drinking water’.

<sup>5</sup> NHMRC, NRMCC (2011) “*Australian Drinking Water Guidelines Paper 6 National Water Quality Management Strategy*”. National Health and Medical Research Council, National Resource Management Ministerial Council, Commonwealth of Australia, Canberra, v3.7, January 2022, available from: <https://nhmrc.gov.au/about-us/publications/australian-drinking-water-guidelines>



## **Schedule 7 – Chemicals Approved for Addition to Drinking Water**

Schedule 7 lists chemicals either accepted or approved by the Department of Health for addition to drinking water in Western Australia.

This Schedule directly refers to Chapter 8 of the “[Australian Drinking Water Guidelines](#)”, which provides further information and guidance about quality assurance, monitoring and analytical advice and assessing levels of contaminants in chemicals used for drinking water treatment.

**Water treatment chemicals not listed in Schedule 7 must be approved by the Department of Health WA before use with drinking water in Western Australia.**

## **Schedule 8 – Chemicals and Products used to Maintain Water Treatment and Distribution Systems**

Schedule 8 lists chemicals and products used to maintain water treatment and distribution systems that have been approved by the Department of Health for addition to drinking water.

Products must be used in accordance with the manufacturer’s recommendations.

## **Schedule 9 – Chemicals and Materials used in Drinking Water Catchment Areas**

Schedule 9 lists chemicals and materials that have been assessed and approved by the Department of Health for use in drinking water catchment areas in Western Australia.

Products must be used in accordance with the manufacturer’s recommendations.

## **Schedule 10 – Use of Fire Suppressants and Fire Retardants in Drinking Water Catchment Areas**

Schedule 10 lists products that are currently used in firefighting operations by the Fire Services Management Branch of the Western Australian Department of Biodiversity Conservation and Attractions (DBCA) and products that are regarded as acceptable for use as vehicle mounted firefighting foam products within a public drinking water catchment area in Western Australia, subject to the listed conditions.

Products must be used in accordance with the manufacturer’s recommendations.



## Applying for Approval to use a Material, Product or Chemical in Contact with Drinking Water

Materials, products and chemicals that are compliant with Australian Standard AS/NZS 4020:2018 or Chapter 8 of the “[Australian Drinking Water Guidelines](#)” may generally be used in contact with or to treat drinking water in Western Australia without applying to the Department of Health WA. The Department of Health should be notified prior to use, for inclusion in this factsheet. Products must be used in accordance with the manufacturer’s recommendations.

From 1 May 2019, the Department of Health WA requires any metallic, inorganic or polymeric material or product that is not included in this fact sheet to be certificated to [AS/NZS 4020:2018 Testing of products for use in contact with drinking water](#) prior to approval and inclusion in this fact sheet. If a wholly or partly polymeric material or product that is not already approved and listed in this fact sheet has been certificated to *AS/NZS 4020:2005* prior to 1 May 2019, it will need to be reassessed for certification against the 2018 edition of the Standard before being approved and included in this fact sheet.

Product manufacturers are also advised to note the advice about reverification testing set out in AS/NZS 4020:2018.

The [Australian Water Quality Centre](#), based in Adelaide, can be contacted for further advice regarding certification of products to AS/NZS 4020:2018 (Incorporating Amendment No. 1).

International certifications which may be considered acceptable to approve a material, product or chemical include:

- NSF International Standard/American National Standard (NSF/ANSI) 60: Drinking Water Treatment Chemicals – Health Effects<sup>6</sup>;
- NSF/ANSI 61: Drinking Water System Components – Health Effects<sup>7</sup>;
- UK WRAS approval (compliant with British Standards BS 6920:2014 Suitability of non-metallic materials and products for use in contact with water intended for human consumption with regard to their effect on the quality of the water)<sup>8</sup>; and
- UK Drinking Water Inspectorate Regulation 31 approval (for all materials from source to point of supply, including treatment chemicals, pipes, fittings etc)<sup>9</sup>.

The Department of Health WA will assess individual products for use in Western Australia only where a separate accreditation or certification process has not or cannot be applied.

NB – Schedules 5 and 8 apply not just to surfaces constantly in contact with or submerged in drinking water but also any surface in the distribution system where drinking water may come into contact with it, including by condensation or dripping, such as the interior of drinking water tanks above the full service level and the underside of drinking water tank roof structures.

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<sup>6</sup> Further information and approval status can be verified at <http://info.nsf.org/Certified/PwsComponents/index.asp?standard=061>

<sup>7</sup> Details at: <http://info.nsf.org/Certified/PwsChemicals/>

<sup>8</sup> Details at: [https://www.wrasapprovals.co.uk/approvals/products\\_and\\_materials\\_directory/](https://www.wrasapprovals.co.uk/approvals/products_and_materials_directory/)

<sup>9</sup> Details at: [www.dwi.gov.uk/drinking-water-products/approved-products/index.htm](http://www.dwi.gov.uk/drinking-water-products/approved-products/index.htm)



For more information about other products that may come into contact with drinking water, such as fertilisers, herbicides, pesticides and specialised chemicals for non-potable uses, such as industrial boilers and air-conditioning units, please contact the Water Unit of the Department of Health WA<sup>10</sup> or refer to:

[https://ww2.health.wa.gov.au/Articles/A\\_E/Drinking-water-catchment-management](https://ww2.health.wa.gov.au/Articles/A_E/Drinking-water-catchment-management)

[https://ww2.health.wa.gov.au/Articles/A\\_E/Drinking-water-treatment](https://ww2.health.wa.gov.au/Articles/A_E/Drinking-water-treatment)

## Guidance on WaterMark certification

The National Construction Code, Volume Three: Plumbing Code of Australia, as adopted in part by the Western Australian [\*Plumber's Licensing and Plumbing Standards Regulations 2000\*](#) requires that all materials or products intended for use in contact with drinking water comply with AS/NZS 4020, for the protection of human health. This requirement forms part of the WaterMark certification.

The WaterMark Certification Scheme is a mandatory certification scheme for plumbing and drainage products to ensure they are fit for purpose and appropriately authorised for use in plumbing and drainage installations.

More information on the WaterMark certification scheme, including a database of products certified under that scheme, is available via the [Australian Building Codes Board](#) website.

NB – Transition arrangements for plumbing products with a reduced level of lead commenced in May 2023 – please refer to the [Watermark web site](#) for more details.

## Guidance on WSAA Product Appraisals

The WSAA National Product Appraisals program is a voluntary scheme introduced by the Water Services Association of Australia (WSAA) to provide a single coordinated appraisal of a product's technical conformity to the needs of the urban water businesses. Details are available from WSAA at: <https://www.wsaa.asn.au/publications/about-product-appraisals>

## Guidance on Material Safety Data Sheets

When making an application for approval, DOH requires copies of compliant Material Safety Data Sheets (Safety Data Sheets) for the product in question (and if necessary their components if the product is a composite) that are no more than five years old at the time of the application for approval. This information will be held in confidence.

Details about Safety Data Sheets are available from Safe Work Australia at:

<https://www.safeworkaustralia.gov.au/safety-topic/hazards/chemicals/safety-data-sheets>

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<sup>10</sup> Contact details are at the end of this Fact Sheet.





## Schedule 4 – Chemicals and Materials Assessed - Not Approved

Schedule 4 lists chemicals, products and materials that have been presented to the Department of Health and have not been approved for use in association with any drinking water application in Western Australia.

| <b>DoH REF</b> | <b>Year Assessed</b>  | <b>PRODUCT</b>                              | <b>COMPANY</b>                | <b>REASON</b>   |
|----------------|-----------------------|---|-------------------------------|---|
| 88/8090/14     | 1989                  | A Catt Suppressor Valve                     | J A Industries                | Previously approved. Unable to confirm current status.                                |
| 92/8036        | 1992                  | Acothane Solvent Free Coating (brush grade) | Great Western Chemicals       | Previously approved. Unable to confirm current status.                                |
| 88/8090/4      | 1989                  | Acryl 60                                    | ICI Building Products         | Previously approved. Unable to confirm current status.                                |
| 88/8090/36     | 1990                  | Anzopol 3329003                             | Anzol Pty Ltd                 | Previously approved. Unable to confirm current status.                                |
| F-AA-39668     | 2016                  | Aqua Salveo                                 | Drops of the Future           | Did not demonstrate safety or efficacy of product. Contact DoH for details.           |
| 92/8036/4      | 1993                  | Bostik N49 Primer (used with Seal N Flex 1) | Bostik                        | Previously approved. Unable to confirm current status.                                |
| 88/8090        | 1984                  | Butynol                                     | Shelter Engineering Pty Ltd   | Previously approved. Unable to confirm current status.                                |
| 88/8090/24     | 1990                  | Calcure Type D                              | Cementaid Pty Ltd             | Did not complete assessment   |
| 88/8090/24     | 1990                  | Calform NX                                  | Cementaid Pty Ltd             | Did not complete assessment   |
| 88/8090/24     | 1990                  | Calstrip                                    | Cementaid Pty Ltd             | Did not complete assessment   |
| 88/8090        | 1986                  | Carboline 191 4B Topcoat                    | Vessey Chemicals (WA) Pty Ltd | Previously approved. Unable to confirm current status.                                |
| 88/8090        | 1986                  | Carboline 191 Primer                        | Vessey Chemicals (WA) Pty Ltd | Previously approved. Unable to confirm current status.                                |
| 9772116        | 2013 (rescinded 2021) | Chemclad XC                                 | Enecon Corporation USA        | Previous NSF Approval 2011 has expired – refer new product Chemclad SC in Schedule 5. |
| 92/8036/14     | 1990                  | Chesterton 855 Abrasion Control Liquid      | John Venables                 | Previously approved. Unable to confirm current status.                                |
| 92/8036/14     | 1994                  | Chesterton ARC SC2 Abrasion Control Fluid   | John Venables                 | Previously approved. Unable to confirm current status.                                |

| <b>DoH REF</b> | <b>Year Assessed</b> | <b>PRODUCT</b>                   | <b>COMPANY</b>                                  | <b>REASON</b>   |
|----------------|----------------------|----------------------------------|---|---|
| 86/940         | 1985                 | Chevron Industrial Membrane      | CIM Distributors                                | Previously approved. Unable to confirm current status.    |
| 88/8090        | 1985                 | Copon EA9                        | Dimet Western Australia                         | Previously approved. Unable to confirm current status.    |
| -              | 1986                 | Corrocoat EP1                    | Corrocoat Aust Pty Ltd                          | Minor changes to formulation with no retesting to AS4020  |
| 88/8090/31     | 1992                 | Corroguard EP                    | Corroless Australia/Pics- Axlo Gp. Altona VIC   | Previously approved. Unable to confirm current status.    |
| 88/8090/31     | 1992                 | Corroless RF35                   | Corroless Australia / Pics- Axlo Gp. Altona VIC | Previously approved. Unable to confirm current status.    |
| 92/8036/8      | 1993                 | Cotene 9121/70A Black            | Birwick March Pty Ltd                           | Previously approved. Unable to confirm current status.    |
| 92/8036/8      | 1993                 | Coterie 9121/70A Black           | Solco International                             | Previously approved. Unable to confirm current status.    |
| 86/940         | 1986                 | Crystic 491                      | Monsanto Australia                              | Previously approved. Unable to confirm current status.    |
| 88/8090/30     | 1990                 | Derbigum SP Bitumen Membrane     | Derbit Australia                                | Previously approved. Unable to confirm current status.    |
| 90/8163        | 1991                 | Dow Corning Silicone 780         | Dow Corning Australia                           | Did not complete assessment                               |
| 92/8036/13     | 1994                 | Drizoro Maxplug                  | Auswest Coatings                                | Previously approved. Unable to confirm current status.    |
| 90/8163        | 1991                 | Durapond                         | Duram Coating Products                          | Failed testing  |
| 88/8163        | 1991                 | Dyna Valve-Jumper Valve          | Aplitek (Qld) Matro Labs                        | Previously approved. Unable to confirm current status.    |
| 90/8163        | 1991                 | Elastoseal                       | Crommelin Chemicals                             | Did not complete assessment                               |
| 88/8090/13     | 1989                 | Elasto-thane 227R                | ICI Building Products                           | Did not complete assessment                               |
| 88/8090/19     | 1989                 | Emastak                          | Gating Pty Ltd, Barry Arnold                    | Previously approved. Unable to confirm current status.    |
| 86/940         | 1989                 | Ferrogard                        | Newcastle Chemicals                             | Previously approved. Unable to confirm current status.    |
| 88/8090        | 1986                 | Fluigide E                       | Corrocoat Australia Pty Ltd                     | Minor changes to formulation with no retesting to AS4020. |
| 88/8090        | 1986                 | Gipchem Permaflex                | Gippsland Chemicals                             | Previously approved. Unable to confirm current status.    |
| 88/8090/09     | 1988                 | Glass Fibre Reinforced Polyester | FG Industries                                   | Previously approved. Unable to confirm current status.    |

| <b>DoH REF</b> | <b>Year Assessed</b> | <b>PRODUCT</b>                        | <b>COMPANY</b>                                | <b>REASON</b>  |
|----------------|----------------------|---------------------------------------|---|--|
| 88/809 0/39    | 1991                 | Halar Fluoropolymer Resin             | ACPS Lined Systems                            | Did not complete assessment                            |
| 88/809 0/01    | 1990                 | HIP2835 Stabiliser                    | Hardie Iplex                                  | Did not complete assessment                            |
| 88/8090        | 1985                 | Hycote 151                            | Underwater Technology Corp                    | Previously approved. Unable to confirm current status. |
| 92/803 6/3     | 1993                 | Hydrotite CJ 0725-3K Rubber Sealant   | Parchem                                       | Previously approved. Unable to confirm current status. |
| 92/8036/3      | 1993                 | Hydrotite SS 0220 Rubber sealant      | Parchem                                       | Previously approved. Unable to confirm current status. |
| 92/8036/9      | 1993                 | Innotech Rain Water Tanks             | Innotech Site Services                        | Previously approved. Unable to confirm current status. |
| 88/809 0/18    | 1991                 | Interpon HD 3005 epoxy powder coating | Taubmans Pty Ltd                              | Did not complete assessment                            |
| 88/809 0/43    | 1991                 | Isophthalic Resin (KEM 142)           | ICI Dulux Resins                              | Did not complete assessment                            |
| 88/809 0/46    | 1991                 | Leakmaster LVI                        | Parchem                                       | Previously approved. Unable to confirm current status. |
| 90/8163        | 1992                 | Magnaspheres (granules)               | Steetley                                      | Previously approved. Unable to confirm current status. |
| F-AA-13607     | 2018                 | MCU Mastic                            | Metaltec                                      | Did not complete AS4020 assessment                     |
| 88/8090        | 1986                 | Merco 219                             | Bestobell Engineering Products                | Previously approved. Unable to confirm current status. |
| 88/809 0/16    | 1989                 | Metallic Zinc Spray                   | John McCoy & Assoc                            | Did not complete assessment                            |
| 88/809 0/45    | 1991                 | Neste 0909 polyethylene manufacture   | Morris White Pty Ltd                          | Previously approved. Unable to confirm current status. |
| 88/809 0/40    | 1991                 | Noverox AX/Sx                         | General & Technical Distributors, Balcatta WA | Previously approved. Unable to confirm current status. |
| 88/809 0/28    | 1990                 | Nutra Rust 661                        | Burwood Agencies                              | Did not complete assessment                            |
| 88/809 0/43    | 1991                 | Orthophthalic Resin (73-2020)         | ICI Dulux Resins                              | Did not complete assessment                            |
| 88/809 0       | 1986                 | Pabkote                               | Pabco Products                                | Previously approved. Unable to confirm current status. |

| <b>DoH REF</b> | <b>Year Assessed</b> | <b>PRODUCT</b>                             | <b>COMPANY</b>                       | <b>REASON</b>  |
|----------------|----------------------|--|--------------------------------------|--|
| 88/809 0/12    | 1989                 | Peratol                                    | BTR Industrial Products Pty Ltd      | Previously approved. Unable to confirm current status.   |
| 88/8090        | 1987                 | Polyethylene Pipes                         | Industrial Pipe Systems              | Previously approved. Unable to confirm current status.[Status refers to specific product, not all PE pipes.] |
| 88/809 0/22    | 1990                 | Polyethylene Resin Hostalen GM 5010        | David Moss Trading Pty Ltd           | Did not complete assessment  |
| 90/8163        | 1991                 | Procure (Sprayable rubber)                 | Dunlop Industrial products           | Did not complete assessment  |
| 86/940         | 1986                 | PU 119                                     | Ludavici JC & Son Ltd                | Previously approved. Unable to confirm current status.   |
| 86/940         | 1986                 | PU40                                       | Ludavici JC & Son Ltd                | Previously approved. Unable to confirm current status.   |
| 95-06134       | 2002                 | PVA (bags)                                 | Orica Chemicals                      | Previously approved for use in 2002 but no longer approved.  |
| 2109 th1a      | 2012                 | PVA (bags) - Plantic TFR V2019             | Plantic Technologies Ltd             | Previously approved for trial use in 2012 but no longer approved.  |
| 03/6935        | 2003                 | PV Liquid Vinyl (PV311-Top)                | Industrial Coating Solutions PTY Ltd | Previously approved. Unable to confirm current status.   |
| 97/7042        | 1997                 | Qualipoly Isophthalic Polyester Resin K530 | Qualipoly Chemical Corp., Taiwan     | Previously approved. Unable to confirm current status.   |
| 88/809 0/51    | 1992                 | Rafpoxy A52 High Build                     | Raffles Paints                       | Did not complete assessment  |
| 88/809 0/23    | 1989                 | RCL Polyester Resin                        | RCL resinous Chemicals               | Failed chemical leachate testing   |
| 88/809 0/42    | 1991                 | Red Mud Plastic                            | J P Distributors                     | Did not complete assessment  |
| 88/809 0/21    | 1990                 | Secoseal 200                               | Expandite (Australia) Pty Ltd        | Did not complete assessment  |
| 88/809 0/35    | 1990                 | Shamir Epoxy Polyester                     | Amiad Australia Pty Ltd              | Did not complete assessment  |
| 88/809 0/37    | 1991                 | Sikaflex 1a                                | Sika Australia                       | Previously approved. Unable to confirm current status.   |
| 88/809 0/29    | 1990                 | Steel it coatings                          | Specialty Metals                     | Did not complete assessment  |
| 88/809 0/24    | 1990                 | Superplastet SR                            | Cementaid Pty Ltd                    | Did not complete assessment  |

| <b>DoH REF</b> | <b>Year Assessed</b> | <b>PRODUCT</b>  | <b>COMPANY</b>                      | <b>REASON</b>  |
|----------------|----------------------|---|-------------------------------------|--|
| 88/8090/06     | 1994                 | Tank lining High Build Epoxy  | Courtaulds (Australia) Pty          | Did not complete assessment                            |
| 88/8090/04     | 1989                 | Thoroseal   | ICI Building Products               | Previously approved. Unable to confirm current status. |
| 92/8036/10     | 1993                 | Thortex Cerami-Tech CR  | Simtech Sales & Services, Carine WA | Previously approved. Unable to confirm current status. |
| 88/8090        | 1990                 | Turbomag Electromagnetic water treatment system                             | Turbomag Australia Pty Ltd          | Previously approved. Unable to confirm current status. |
| 88/8090/02     | 1990                 | UPVC Pressure Pipe  | Humes Plastics Pty Ltd              | Previously approved. Unable to confirm current status. |
| 88/8090/15     | 1989                 | Ureseal 270   | ICI Building Products               | Previously approved. Unable to confirm current status. |
| 88/8090        | 1988                 | Waterplug   | ICI Building Products               | Previously approved. Unable to confirm current status. |
| 04/7215        | 2005                 | WR-525 Carbon Fibre Reinforced PEEK (polyaryletherketone polymer) Composite | Victrex PLC                         | Previously approved. Unable to confirm current status. |
| 88/8090/20     | 1992                 | Z bond roof and gutter silicone   | Brenntag                            | Previously approved. Unable to confirm current status. |
| 88/8090/20     | 1992                 | Z bond V60 glazing silicone   | Brenntag                            | Previously approved. Unable to confirm current status. |

## Notes

DoH Department of Health (Western Australia)

## Schedule 5 – Approved Materials

Schedule 5 lists materials and products (linings, paints, coatings, resins, epoxies, fittings etc) compliant to Australian Standard ‘AS/NZS 4020 Testing of products for use in contact with drinking water’ where the Department of Health (Western Australia) has been advised that the product is in use for drinking water applications.

Any material, product or substance compliant to AS/NZS 4020:2018 may be used in contact with drinking water without application to the Department of Health. However, care should be taken to ensure the product remains valid for use if not listed on this fact sheet.

Products must be used in accordance with the manufacturer’s recommendations.

Please note that water treatment chemicals approved for use in Western Australia are listed in [Schedule 7](#). Chemicals and products approved for use to maintain water treatment and distribution systems are listed in [Schedule 8](#).

| DoH REF / WC DOC NO    | Year listed by DoH | PRODUCT                         | OTHER NAMES                     | COMPANY                                 | APPROVAL TYPE                             | RESTRICTION OR COMMENT   |
|------------------------|--------------------|---------------------------------|---------------------------------|---|---|--|
| 735148<br>2            | 2012               | 622 White Grease                | -                               | Chesterton                              | NSF Approval with incidental food contact | Lubricant  |
| E-AA-13-25495          | 2013               | Aeon PVC/ Elvaloy Tank Membrane | Replaces Nylex Potable Membrane | Innova International Pty Ltd            | AS4020: 2005 (completed 4/3/2010)         | In-line / tank membrane liner  |
| 99-06176<br>F-AA-25238 | 1999               | Akzo Nobel Interline 876        | -                               | Pentair Water and Environmental Systems | AS4020: 2005 (completed 5/10/2010)        | Sealant to cement mortar lined water supply mains.                               |
| D-AA-18/777<br>83      | 2018               | Amex Saniline W                 | -                               | AMEX GmbH                               | AS4020:2005 (completed 7/8/2015)          | Composite pipe lining material   |
| F-AA-13706/<br>2       | 2016               | Anhydride Cured Epoxy Resin     | -                               | Fiber Glass Systems NOV                 | NFS/ANSI Standard 61 – Approval 2013      | Bore casing  |
| D-AA-19/612<br>17      | 2019               | Aqua-Pipe PU                    | -                               | Sanexen Services                        | AS 4020:2005                              | Plastic urethane membrane  |
| 170464<br>044          | 2023               | Aquasafe PVC Fabric A-2NT       | -                               | Wonpoong Corporation, Seoul Korea       | AS 4020:2018 Approval in 2023             | PVC coating tank liner. Exposure not to exceed 12,900 mm <sup>2</sup> per litre. |
| D-AA-16/275<br>42      | 2016               | Aquatex Aqualiner               | AQEF Trafab                     | Bartlett Tank Liners                    | NSF/ANSI Standard 61 (confirmed 8/4/2019) | In-line / tank membrane liner  |

| <b>DoH REF / WC DOC NO</b> | <b>Year listed by DoH</b> | <b>PRODUCT</b>                         | <b>OTHER NAMES</b>                  | <b>COMPANY</b>   | <b>APPROVAL TYPE</b>                      | <b>RESTRICTION OR COMMENT</b>                  |
|----------------------------|---------------------------|--|-------------------------------------|--|---|--|
| F-AA-13607                 | 2017                      | AR-HT Abrasive-resistant thermoplastic | -                                   | Greene, Tweed & Co   | BS 6920 Approval                          | Thermoplastic / PEEK composite                 |
| F-AA-25319                 | 2013                      | Bactericidal Polydex Lubricant         | Replaces Vinidex Jointing Lubricant | Vinidex  | AS4020 Approval in 2004                   | Lubricant for rubber ring joints               |
| 774665 2                   | 2012                      | Belzona 1111 Supermetal                | Belzona Supermetal                  | Rezitech Services  | AS4020 Approval in 2011                   | Coating  |
| 774665 7                   | 2012                      | Belzona 1341                           | Super Metalglide                    | Rezitech Services  | AS4020 Approval in 2011                   | Coating  |
| 92-08036/5 E-AA-13-25496   | 1994                      | Bondstrand Series 2000 pipe            | -                                   | Wenco Pty Ltd, O'Connor, WA                                    | NSF/ANSI Standard 61 (confirmed 8/4/2019) | Glass-reinforced epoxy water pipe              |
| F-AA-25224                 | 2013                      | Carboguard 690 N53 Blue/Grey and White | -                                   | Altex Coatings Ltd   | AS4020:2005 (approved 7/12/2009)          | Contact DoH for conditions of approval.        |
| D-AA-19/411 29             | 2019                      | Caltite                                | -                                   | Cementaid  | WRAS App No. 1804526                      | Contact DoH for conditions of approval         |
| 823432 4                   | 2012                      | Ceram-Chem RP500                       | -                                   | Chemco International   | AS4020 Approval in 2010                   | Coating  |
| F-AA-13607                 | 2021                      | Chemclad SC                            | -                                   | Enecon Corporation USA (Specialised Industrial Maintenance WA) | NSF Approved - NSF/ANSI/ CAN 61 - 2020    | Coating – not to be used with Primer P4C.      |
| F-AA-13607                 | 2019                      | Chemonit 181                           | -                                   | Rema Tip Top GmbH Germany                                      | BS 6920 Approval                          | Rubber lining – for use with water up to 60°C. |
| 2503 th1a                  | 2012                      | Chemspray 690                          | -                                   | Chemind Hi-Tec Polymers  | On file                                   | Lining Material                                |
| 790832 2                   | 2012                      | Chesterton ARC 855                     | ARC 885                             | Imatech Abrasion and corrosion                                 | WRAS Approval 11 May 2009                 | Coating  |
| 790833 1                   | 2012                      | Chesterton ARC S2                      | ARC S2                              | Imatech Abrasion and corrosion                                 | WRAS Approval 11 May 2009                 | Coating  |
| F-AA-13607                 | 2019                      | Coletanche ES1, ES2, ES3, ES4          | -                                   | Axter Coletanche Inc. Montreal Quebec Canada                   | NSF/ANSI 61 Approval 2017                 | Bituminous geomembrane                         |



| DoH REF / WC DOC NO | Year listed by DoH | PRODUCT   | OTHER NAMES  | COMPANY  | APPROVAL TYPE                   | RESTRICTION OR COMMENT  |
|---------------------|--------------------|---|--|--|---------------------------------|---|
| 8909748             | 2013               | Combiflex SG  | -  | Sika Australia                                 | AS4020 Approval in 2012         | Sealant   |
| 92-08036 F-AA-25277 | 1997               | Conbextra GP  | -  | Fosroc Expandite NSW                           | AS4020:1994 approval 22/02/1996 | General purpose non-shrink cementitious grout.                                  |
| 92-08036 F-AA-25276 | 1997               | Concure WB30  | -  | Fosroc Expandite NSW                           | AS4020:2005 approval 25/8/2010  | Retains moisture in concrete for effective curing.                              |
| 9187636             | 2013               | Copper Tube (20 mm diameter) QLKE-160-070-4-1-4-23-3-2-00 | -  | ABB Industrial Systems Pty Ltd, Luvata, Sweden | AS4020 Approval in 2013         | Material of small bore cooling pipe that runs through pump motor cooler at SSDP |
| D-AA-16/13300       | 2016               | CSPE (Chloro-sulphonated Polyethylene)                    | -  | Burke Industries                               | AS4020:2005 approval 3/3/2011   | Lining material   |
| 96220967            | 2020               | Dayton Superior Clean Strip J1EF                          | -  | Dayton Superior Corporation                    | NSF/ANSI 61                     | Concrete form release agent   |
| EHB-01509           | 2009               | Deacon 360-FG   | -  | Deacon Industries Inc.                         | On file                         | Reseal packing glands of sluice valves.   |
| EHB-01480           | 2009               | Denso Butyl Primer & Tape                                 | -  | Denso (Australia) Pty Ltd                      | On file                         | Corrosion prevention of tank steel columns                                      |
| EHB-01339           | 2009               | Devcon Brushable Ceramic                                  | -  | ITW Polymers & Fluids                          | On file                         | Corrosion control   |
| F-AA-13607          | 2019               | Divercote RA500 (Epo-Chem RA500)                          | Divercote / Epo-Chem RA500UW / RA500M  | Chemco International Ltd                       | NSF/ANSI 61; NSF/ANSI 372       | Coating. For use at temperatures over 5°C.                                      |
| 0a07th1a            | 2010               | Dupont Tank Tan EFT-602-P7                                | -  | Dupont   | On file                         | Adherence to NSF 61 approval conditions   |
| F-AA-13607          | 2021               | Duremax GFX System  | Luxepoxy 66 Red Oxide 410-H0307 and Durepon 66 (Standard Hardener) 976-H031. | Dulux Australia                                | AS 4020:2018 Approval in 2021   | Coating (primer)  |



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|----------------------------------|---------------------------|------------------------------------|---|---|--------------------------------|---|
| F-AA-13607                       | 2021                      | Duremax GFX System                 | Duremax GFX Mid Grey 775-H0095 + Cold Cure Hardener 976-H0126 | Dulux Australia                                 | AS 4020:2018 Approval in 2021  | Coating (intermediate)                            |
| F-AA-13607                       | 2021                      | Duremax GFX System                 | Duremax GFX White 775-H0148 + Cold Cure Hardener 976-H0126    | Dulux Australia                                 | AS 4020:2018 Approval in 2021  | Coating (topcoat)                                 |
| 7746637                          | 2012                      | Duremax GPE Part A & B             | General Purpose Epoxy Part A & B                              | Dulux Australia                                 | AS4020 Approval in 2012        | Coating   |
| 7746630                          | 2012                      | Duremax GPE Water Tank Grey Part A | General Purpose Epoxy   | Dulux Australia                                 | AS4020 Approval in 2004        | Coating   |
| 7746647                          | 2012                      | Duribild HSE Part A & Part B       | High Solids Epoxy Part A & B                                  | Dulux Australia                                 | AS4020 Approval in 2011        | Coating   |
| F-AA-13607                       | 2014                      | Duribild HSE White Light 74463001  |   | Dulux Australia                                 | AS4020 Approval in 2011        | Coating   |
| D-AA-16/13301                    | 2016                      | Enviroliner 6000                   | Enviroliner 6040  | Layfield Geosynthetics & Fabrics                | AS4020 Approval in 2007        | Tank liner  |
| 99-06075 F-AA-25273              | 1999                      | EPDM compound 5567                 | -   | Pentair Water and Environmental Systems         | Latest AS4020 Approval in 2011 | Pressure seal in steel pipelines                  |
| F-AA-5273                        | 2013                      | EPDM Ref FR5615                    | -   | Stockbrands Co Pty Ltd                          | AS4020 Approval in 2006        | Material for rubber flange gasket                 |
| F-AA-13607                       | 2019                      | EPDM Rubber (EP 701110 HW)         | -   | Zenith Industrial Rubber Products PVT Ltd India | BS 6920 Approval               | Rubber diaphragm, for use with water up to 23° C. |
| 96216860                         | 2020                      | EPDM Rubber                        | -   | Unitech Rubber Seal Solutions (Tianjin) Co Ltd  | BS 6920 Approval               | Rubber material, for use with water up to 85° C.  |
| 88-08090/33 & F-AA-13607 & 25281 | 1991 (renewed 2023)       | Epigen 1311                        | -   | Peerless Industrial Systems                     | AS4020 Approval in 2023        | Epoxy coating                                     |

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|----------------------------|---------------------------|---|---------------------------------------|---------------------------------------|---|---|
| 948833<br>4                | 2013                      | EpiMax 330  | Solventless Epoxy Coating             | Epimax Technologies                   | AS4020 Approval in 2011                 | Coating   |
| 995467<br>7                | 2013                      | EpiMax 333AR  | -                                     | Epimax Technologies                   | AS4020 Approval in 2013                 | High build acid resistant coating   |
| F-AA-13607                 | 2016                      | Epinamel DTM985   | -                                     | Valspar Paint Pty Ltd                 | AS4020 Approval in 2015                 | Tank coating  |
| 1b21<br>th1a               | 2011                      | Epirez 633  | -                                     | ITW Polymers and fluids               | On file                                 | Mortar binder   |
| 88-08090<br>F-AA-25355     | 1989                      | Exit Rust   | -                                     | Liquied Engineering                   | On file                                 | Pre-treatment of metallic surfaces  |
| 92-08036<br>F-AA-25279     | 1997                      | Expandafom Strip  | -                                     | Parchem                               | On file                                 | Joint filler in concrete  |
| E-AA-13-25494              | 2013                      | Fibreglass Composite Laminate from Crystic VE 671 Resin | -                                     | Summit Composites Pty Ltd             | AS4020 Approval in 2009                 | Composite for pipes and tanks   |
| 88-08090<br>F-AA-25347     | 1986                      | Fibretak  | -                                     | Calmarc Chemicals                     | On file                                 | Coating   |
| 796011<br>2                | 2012                      | Flexitiff Part A & B                                    | Polyurea Elastomer Coating Part A & B | Dulux                                 | AS4020 Approval in 2009                 | Coating   |
| EHB-03010                  | 2011                      | Flexus Shotbond   | -                                     | ITW New Zealand Ltd                   | On file                                 | Lining drinking water pipes. Contact DoH for conditions of approval.                    |
| 88-08090<br>F-AA-25283     | 1986                      | Fluiglide   | -                                     | Corrocoat Australia Pty Ltd           | On file. Latest AS4020 Approval in 2004 | Coating   |
| 123382<br>384              | 2021                      | Fosroc Nitomortar 903                                   | -                                     | Parchem Construction Supplies Pty Ltd | AS4020:2018 approval in 2021.           | Epoxy primer / binder, not to exceed 15000 mm <sup>2</sup> per litre.                   |
| 124055<br>413              | 2021                      | Fosroc Nitoseal PU400                                   | -                                     | Parchem Construction Supplies Pty Ltd | AS4020:2018 approval in 2021.           | One component polyurethane joint sealant, not to exceed 2500 mm <sup>2</sup> per litre. |

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|----------------------------|--------------------|--|-------------------------------|---------------------------------------|---------------------------------------|--|
| 123366<br>714              | 2021               | Fosroc Polyurea WPE 110                      | -                             | Parchem Construction Supplies Pty Ltd | AS4020:2018 approval in 2021.         | Rapid curing pure polyurea system, not to exceed 9730 mm <sup>2</sup> per litre. |
| 124048<br>752              | 2021               | Fosroc Primer 13                             | -                             | Parchem Construction Supplies Pty Ltd | AS4020:2018 approval in 2021.         | Two part epoxy primer, not to exceed 7500 mm <sup>2</sup> per litre.             |
| F-AA-13607                 | 2022               | FUZE Potable                                 | Futurewrap Potable            | FUZE Group Pty Ltd                    | BS 6920:2014 Approval in 2021.        | Composite glass reinforced epoxy, for use not exceeding 50° Celsius.             |
| 948853<br>1                | 2013               | Hard Rubber – General                        | -                             | ABB Australia                         | WRAS Approval in 2010                 | Internal Lining of ABB Magnetic Flowmeter  |
| 904795<br>5                | 2013               | Hepadur Multi-Strength 35530                 | -                             | Sika Australia                        | NSF International 09/11/2011          | Coating  |
| F-AA-13607                 | 2022               | Hetron 922<br>Hetron 922PaS<br>Hetron 922PaW | -                             | Allnex                                | AS 4020:2018 Approval in 2022         | Vinyl ester resins, not to exceed 15000 mm <sup>2</sup> per litre.               |
| 9816145<br>5               | 2020               | HIT-RE 500 V3                                | -                             | Hilti AG / Hilti (Aust) Pty Ltd       | NSF/ANSI 61                           | Epoxy Adhesive Anchoring System  |
| 88-08090/2<br>6 F-AA-25280 | 1990               | Hobas, Centrifugally Cast GRP Pipes          | -                             | Global Pipe Australia Pty             | Latest AS4020 Approval in 2013        | Water pipes  |
| 92-08036                   | 1997               | Hydrocell                                    | -                             | Parchem                               | On file                               | Joint filler in concrete   |
| D-AA-16/528<br>9           | 2016               | Hydro 90                                     | -                             | Sarco Stopper Ltd                     | UK WRAS Approval No. 1507560          | Silicon spray. Contact DoH for restrictions.                                     |
| D-AA-27359                 | 2016               | Industratex 420                              | -                             | Bartlett Tank Liners                  | AS4020 Approval in 1998               | PE liner   |
| D-AA-16/275<br>36          | 2016               | Industratex 650                              | -                             | Bartlett Tank Liners                  | AS4020 Approval in 1998               | PE liner   |
| 107768<br>72 F-AA-13607    | 2014               | Intercrete 4841                              | Cementitious Coating 851 (UK) | Akzo Nobel Pty Ltd                    | AS4020 Approval by NSF-WRc 05/12/2013 | Coating  |

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|----------------------------|---------------------------|--|------------------------|-------------------------|---|--|
| 107037<br>19 F-AA-13607    | 2014                      | Intercrete 4842                                  | Cemprotec Elastic (UK) | Akzo Nobel Pty Ltd      | AS4020 Approval by NSF-WRc 05/03/2014   | Coating  |
| 107768<br>90 F-AA-13607    | 2014                      | Intercrete 4872                                  | Cemprotec 2000-S (UK)  | Akzo Nobel Pty Ltd      | AS4020 Approval by NSF-WRc 05/12/2013   | Tape   |
| 774665<br>2                | 2012                      | Interline 850 White                              | TLA850/ TLA856         | Akzo Nobel Pty Ltd      | AS4020 Approval in 2010                 | Coating  |
| 774664<br>7                | 2012                      | Interline 921                                    | THA921/ THA922         | Akzo Nobel Pty Ltd      | AS4020 Approval in 2012                 | Coating  |
| 88-08090/2<br>7 F-AA-25238 | 1990                      | Interline 925                                    | THA125                 | International Paint     | On file. Latest AS4020 Approval in 2011 | Coating. Adherence to manufacturer's conditions              |
| 774665<br>7                | 2012                      | Interline 975/ Interline 975P                    | THA975/ THA973         | Akzo Nobel Pty Ltd      | AS4020 Approval in 2012                 | Coating  |
| 1c20<br>th1a               | 2011                      | Interline 975 Part A & B                         | -                      | International Paint     | On file                                 | In-line and tank liner                                       |
| 117868<br>850              | 2021                      | Interline 982                                    | -                      | Akzo Nobel Pty Ltd      | AS 4020:2005 Approval in 2019           | Primer   |
| 774663<br>0                | 2012                      | International Paint Intercrete 4802              | Intercrete 4802        | Akzo Nobel Pty Ltd      | Has UK approvals                        | Cement   |
| 760437<br>8                | 2012                      | Jotacote 605                                     | -                      | Jotun Australia Pty Ltd | AS4020 Approval in 2010                 | Coating  |
| 760443<br>2                | 2012                      | Jotacote UHB                                     | -                      | Jotun Australia Pty Ltd | AS4020 Approval in 2006                 | Coating  |
| 132573<br>999              | 2022                      | Jotamastic 90 Off White Protective Epoxy Coating | -                      | Jotun Australia Pty Ltd | AS 4020:2018 Approval in 2022           | Epoxy coating not to exceed 15000 mm <sup>2</sup> per litre. |
| 117868<br>180              | 2021                      | Jotamastic 90 Valve Blue                         | -                      | Jotun Australia Pty Ltd | AS 4020:2018 Approval in 2021           | Coating  |
| 735147<br>0                | 2012                      | Lanotec Type A Grease                            | -                      | Lanotec                 | AS4020 Approval in 2011 (except taste)  | Lubricant  |

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|----------------------------|---------------------------|---|-------------------------------|--------------------------------------|--|---|
| 117240021                  | 2021                      | Lewatit MonoPlus C-249 NS                   | -                             | Lanxess Corporation PA USA           | NSF/ANSI/CAN 61 - 2018   | Ion exchange resin  |
| D-AA-18/77775              | 2018                      | Linagard FG                                 | -                             | Weir Minerals Malaysia               | Group 1A approval. FDA CFR177.2600 compliant with acceptable barriers. | Food grade natural rubber   |
| F-AA-51792                 | 2017                      | Line-X XS-350                               | -                             | Line-X Australia                     | On file  | Spray on protective coating   |
| F-AA-13607                 | 2017                      | Loctite LB 8014                             | Loctite Food Grade Anti-Seize | Henkel Europe                        | NSF Approval with incidental food contact                              |   |
| 114319952                  | 2021                      | Loctite 577                                 | -                             | Henkel Australia                     | AS 4020:2018 Approval in 2020  | For use with water up to 80°C.  |
| 121444933                  | 2021                      | Loxeal 58-11                                | -                             | Loxeal Srl Italy                     | WRAS approval under BS6920-1:2000                                      | For use with water up to 85°C.  |
| 117874403                  | 2021                      | Loxeal 85-86                                | -                             | Loxeal Srl Italy                     | WRAS approval under BS6920-1:2000                                      | For use with water up to 85°C.  |
| 116631917                  | 2021                      | Mapelastc Smart                             | -                             | MAPEI Australia                      | AS 4020:2018 Approval in 2019  | Exposure to not exceed - 15,000 mm <sup>2</sup> Mapelastc Smart/1 L water up to 40°C. |
| 132579680                  | 2022                      | Marathon Off-White High Build Epoxy Coating | -                             | Jotun Australia Pty Ltd              | AS 4020:2018 Approval in 2021  | Epoxy coating not to exceed 15000 mm <sup>2</sup> per litre.                          |
| 00-06180 F-AA-25362        | 2001                      | MIEX DOC Resin                              | -                             | Orica                                | On file. Latest NSF International 2011                                 | Water treatment system  |
| 7784068                    | 2012                      | MP & M Mortar                               | -                             | Concrete Waterproofing Manufacturing | AS4020 Approval in 2012  | Mortar  |
| 10449169 F-AA-13607        | 2014                      | MX3 FG                                      | -                             | Inox                                 | NSF Approval - 22/09/2011. Incidental Food Contact                     | Lubricant   |

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|---------------------|--------------------|--------------------------------|---|---|--|---|
| 92-08036 F-AA-25275 | 1997               | Nitocote EP405                 | -                                       | Parchem   | On file. Latest AS4020 Approval in 2008            | Lining and water-proofing of tanks  |
| F-AA-13607          | 2018               | NovaFlo 2000M & sealing gasket | -                                       | Novafast  | AS4020 Approval in 2018                            | Glass-fibre epoxy pipe and EPDM sealing gasket                                  |
| F-AA-13607          | 2016               | Novatex SQ-S Gasket            | Inertex SQ-S Expanded PTFE Gasket Sheet | Novus Sealing   | NSF/ANSI Standard 61 approval.                     | Gasket / sealing material   |
| EHB-03010           | 2011               | Nukote ST Polyurea             | -                                       | Nukote Distributions Pty Ltd                          | On file  | Liner in potable water tanks. Contact DoH for conditions of approval.           |
| 144232 227          | 2022               | Plascoat PPA 571 Aqua          | Plascoat PPA 571 Aqua Blue 536          | Plascoat Systems Ltd - Farnham Surrey, United Kingdom | AS 4020:2018 Approval in 2022                      | Coating powder not to exceed 55,500 mm <sup>2</sup> per litre for water < 40°C. |
| 774663 7            | 2012               | Polibrid 700 A-E               | Polibrid                                | Akzo Nobel Pty Ltd                                    | AS4020 Approval in 2012                            | Coating   |
| F-AA-13607          | 2019               | Polyeuro 1050H                 | -                                       | Polycoat Products California                          | NSF/ANSI 61 Approval 2019                          | Polyurethane copolymer protective coating                                       |
| 952408 9            | 2013               | Polyeuro 5502F                 | -                                       | Australian Urethane Systems                           | AS4020 Approval in 2008 - being retested           | Coating   |
| 88-08090            | 1985               | Polyglass "VE"                 | -                                       | Corrocoat (Aust)                                      | On file  | Vinyl ester resin glass reinforced  |
| 2712 th2a           | 2012               | Polyglass "VEF"                | -                                       | Corrocoat (Aust)                                      | AS4020 Approval in 2004                            | Lining / coating material for tanks, pipes and pumps.                           |
| 759674 9            | 2012               | Pozzolith 122Ri                | -                                       | BASF Construction Chemicals Australia                 | Group 1B Material - with non-hazardous ingredients | Concrete Additive   |
| E-AA-13-25496       | 2013               | PSX 34 adhesive                | Replaces Ameron RP-34C adhesive         | NOV Fiber Glass Systems                               | NSF/ANSI 61 (confirmed 8/4/2019)                   | Epoxy adhesive  |

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|----------------------------|---------------------------|--|---|--|--|--|
| 742716<br>2                | 2012                      | PVC Heavy Duty Pipe Wrap Tape            | Pipe Tape   | Heatley Industrial and Safety              | Group 1B material. PVC in stabilised form.     | Securing submersible power cables to bore column                                 |
| 751551<br>2                | 2012                      | Qenos PE HD2090                          | HD2090  | AquaArmour                                 | Group 1B material. High density polyethylene   | Covering dams to reduce evaporation  |
| 109223<br>13 F-AA-13607    | 2014                      | Quickspray Supreme W                     | QSP53120 / QSP 53110                                  | EIC (Aust) Pty Ltd                         | AS4020 Approval by AWQC 07/05/2013             | Coating  |
| 88-08090/3<br>8            | 1991                      | Radcon #7                                | -   | Crommelin Chemicals (WA)                   | On file. Latest BS6920 Approval in 1998        | Coating  |
| 103958<br>52 F-AA-13607    | 2014                      | Radmix RAD19FF                           | SikaFiber Force PP48                                  | Sika Australia                             | AS4020 Approval by AMS Laboratories 20/01/2014 | Concrete Additive  |
| 88-08090<br>F-AA-25346     | 1989                      | Ranex Rust Buster (Ranex Rust Converter) |   | Bondall Pty Ltd                            | On file  | Pre-treatment of metallic surfaces   |
| 1040240<br>42              | 2020                      | Rapp-it Pipe Repair Bandage System       | Rapp-it Pipe Repair Bandage with Steel Putty (RAP123) | Marine & Industrial Marketing, South Korea | AS 4020:2018 Approval in 2020                  | Bandage and putty for temporary emergency pipe repairs.                          |
| 92-08036<br>F-AA-25274     | 1997                      | Renderoc HB40 with Nitobond SBR primer   | -   | Parchem                                    | On file. Latest AS4020 Approval in 2011        | High performance medium-weight concrete reinstatement mortar.                    |
| 92-08036<br>F-AA-25274     | 1997                      | Renderoc LA55                            | -   | Parchem                                    | On file. Latest AS4020 Approval in 2011        | Single component free-flowing low alkali micro-concrete.                         |
| 1c15<br>th1a               | 2011                      | Resicoat ® R4-ES                         | -   | Akzo Nobel Pty Ltd                         | On file  | Internal coating in valves   |
| 115638<br>656              | 2021                      | Resiline 320                             | -   | Resimac Limited UK                         | AS 4020:2018 Approval in 2020                  | Exposure to not exceed 42,080 mm <sup>2</sup> Resiline 320/1 L water up to 40°C. |



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|-------------------------------|---------------------------|------------------------------------|------------------------------------|---------------------------------------|--|---|
| 981610<br>23                  | 2020                      | Resimac 203 Superflow              | Resimetal 203 Superflow            | Resimac Limited UK                    | AS 4020:2018 Approval in 2019                      | Ceramic Repair Fluid  |
| D-AA-18/777<br>4              | 2018                      | Resinex KW-8                       | -                                  | Tianjin Jacobi International          | WRAS Approved Material 1411545                     | Ion exchange resin used in water softeners                                    |
| 977266<br>0                   | 2013                      | Rheobuild 561                      | -                                  | BASF                                  | On file  | Concrete additive   |
| 759659<br>3                   | 2012                      | Rheobuild 1000 NT                  | -                                  | BASF Construction Chemicals Australia | Group 1B Material - with non-hazardous ingredients | Concrete additive   |
| F-AA-13607                    | 2016                      | RPC Permaglass                     | -                                  | RPC Technologies                      | AS 4020 Approval in 2016                           | Bore casing   |
| 760455<br>4 /<br>760458<br>3  | 2012                      | Scotchkote Urethane Coating 165 PW | -                                  | Corrosion Protection Products 3M      | BS6920 Approval                                    | Coating   |
| EHB-03010                     | 2011                      | Scubapox 1725                      | -                                  | National Maintenance Products Pty Ltd | On file  | Sealant for cracks in service tanks and reservoirs.                           |
| 88-0890/4<br>8<br>760446<br>6 | 2012                      | Sigmaguard CSF 575                 | Name change from Sigmaguard CSF 75 | Sigma Coatings                        | AS4020 Approval in 2009                            | Coating. Water containers to be flushed before use.                           |
| F-AA-13607                    | 2022                      | SiegelSeal N07+                    | -                                  | Siegel Pty Ltd NSW                    | AS 4020:2018 Approval in 2021                      | Neutral cure silicone sealant, not to exceed 15000 mm <sup>2</sup> per litre. |
| F-AA-13607                    | 2016                      | Sikaflex Pro                       | -                                  | Sika Australia                        | AS4020 Approval in 2002                            | Sealant   |
| F-AA-13607                    | 2016                      | Sikaflex 11-FC                     | -                                  | Sika Australia                        | AS4020 Approval in 2002                            | Sealant   |
| 952409<br>8                   | 2013                      | Sikaflex Tank                      | -                                  | Sika Australia                        | AS4020 Approval in 2001                            | Sealant   |
| 890974<br>0                   | 2013                      | Sikafloor 161                      | -                                  | Sika Australia                        | AS 4020 Approval in 2011                           | Coating   |



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|----------------------------|---------------------------|--|--------------------|---|---|--|
| 89009744                   | 2013                      | Sikalastic 150                                     | -                  | Sika Australia                          | AS 4020 Approval in 2009  | Coating  |
| 8946508                    | 2013                      | Sikalastic 152                                     | -                  | Sika Australia                          | AS 4020 Approval in 2013  | Coating  |
| 8909755                    | 2013                      | Sikalastic 841 ST                                  | -                  | Sika Australia                          | AS4020 Approval in 2011   | Coating  |
| 8946527                    | 2013                      | Sikaplan WT4200 15C Felt 500 Light Blue            | -                  | Sika Australia                          | AS 4020 Approval in 2010  | Liner  |
| 8946513                    | 2013                      | Sikaplan WT4200 15C Light Blue                     | -                  | Sika Australia                          | AS 4020 Approval in 2010  | Liner  |
| 8946541                    | 2013                      | Sikaplan WT4200 18H Light Blue                     | -                  | Sika Australia                          | AS 4020 Approval in 2010  | Liner  |
| 9321536                    | 2013                      | Silastic 732 Multipurpose (White, Clear and Black) | -                  | Dow Corning                             | NSF International listing July 2013   | Sealant  |
| F-AA-13607                 | 2018                      | Stic-O-Steel Pow-R Putty                           |                    |   | NSF Approval  | Epoxy putty for pipe repair  |
| 9976316                    | 2013                      | STOPAQ 2100 Aquastop                               | -                  | Anti Corrosion Technology               | NSF Approval 2011   | Pipe wrapping  |
| 9976316                    | 2013                      | STOPAQ Wrapping Band CZH                           | -                  | Anti Corrosion Technology               | NSF Approval 2011   | Pipe wrapping  |
| F-AA-25238                 | 1987 and 2012             | Strataflo  | -                  | Pentair Water and Environmental Systems | On file. Latest AS4020 Approval in 2012 for Duraflo same ABS pipe as Strataflo. | Bore casing only. Formulation to remain same.  |
| 112952920                  | 2021                      | Subcote FLP II                                     | -                  | Radius Systems Derbyshire UK            | AS 4020:2018 Approval in 2019   | Exposure must not exceed area to volume ratios - 60,000 mm <sup>2</sup> Subcote FLP II / 1 litre water up to 40°C. |
| 92-08036 F-AA-25278        | 1997                      | Supercast PVC                                      | -                  | Parchem                                 | AS4020 Approval in 1995   | Waterstop  |

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|----------------------------|---------------------------|---|------------------------------|--|-------------------------------|---|
| 92-08036 F-AA-25278        | 1997                      | Supercast SW  | -                            | Parchem  | AS4020 Approval in 1995       | Waterstop   |
| F-AA-13607                 | 2010                      | Tampur 150  | Tam 150                      | Tam International Australia Pty Ltd            | On file                       | Waterstop / Crack injection   |
| 114146 597                 | 2021                      | Tangit PVC-U Special Adhesive                         | Tangit PVC-U Solvent Cement  | Henkel AG & Co KGaA Germany                    | BS6920-1:2014                 | For use with water up to 23°C.  |
| 760435 1                   | 2012                      | Tankguard 412   | -                            | Jotun Australia Pty Ltd                        | AS4020 Approval in 2006       | Coating   |
| F-AA-25320                 | 2013                      | Tapping Bands 4N                                      | Replaces Nylon Tapping Bands | Stockbrands Co Pty Ltd                         | AS4020 Approval in 2009       | In-line / pipe fitting for potable water                                |
| 677882 9                   | 2012                      | Titanex H07RN-F                                       | Titanex submersible cable    | Olex   | AS4020 Approval in 2012       | Connecting power from surface to bore pump motor                        |
| 907381 84                  | 2019                      | Tnemec Series 141 EPOXOLINE Epoxy                     | -                            | Tnemec Company Inc USA                         | NSF 61 Approval               | Modified Polyamine Epoxy – valve coating                                |
| 918760 4                   | 2013                      | Tube Plate (Naval Brass) QLKE-160-070-4-1-4-23-3-2-00 | -                            | ABB Industrial Systems Pty Ltd, Luvata, Sweden | AS4020 Approval in 2013       | Material of motor cooler manifold at SSDP.                              |
| 88-08090 F-AA-25347        | 1986                      | Tufseal 35E   | -                            | Calmarc Chemicals                              | On file                       | Coating   |
| 2306 th1a                  | 2012                      | Vandex BB75-Z   | -                            | Parchem Construction Supplies Pty Ltd          | On file                       | Waterproofing reservoir walls   |
| 2306 th1a                  | 2012                      | Vandex Plug   | -                            | Parchem Construction Supplies Pty Ltd          | On file                       | Plugging areas of leakage on reservoir walls                            |
| 132546 893                 | 2022                      | Vandex Cemelast                                       | -                            | Vandex International Ltd, Switzerland          | AS 4020:2018 Approval in 2021 | Acrylic modified cement, not to exceed 15000 mm <sup>2</sup> per litre. |
| EHB-01339                  | 2010                      | VESPEL CR-6100  | -                            | DuPont De Nemours Int.                         | On file                       | Wear resistance bearing material  |

| <b>DoH REF / WC DOC NO</b> | <b>Year listed by DoH</b> | <b>PRODUCT</b>                     | <b>OTHER NAMES</b>                 | <b>COMPANY</b>                       | <b>APPROVAL TYPE</b>     | <b>RESTRICTION OR COMMENT</b>          |
|----------------------------|---------------------------|------------------------------------|------------------------------------|--------------------------------------|--------------------------|--|
| 136869740                  | 2022                      | Waterways Carbon Filter Vessel     | Pentair Composite Pressure Vessels | Pentair, London UK.                  | NSF / ANSI / CAN 61:2020 | Granular carbon filter.                |
| 7596930                    | 2012                      | Wattyl Epinamel TL710              | -                                  | Wattyl Australia                     | AS4020 Approval in 2009  | Coating                                |
| 7598416 / 7598486          | 2012                      | Wattyl Epinamel TL770SF            | -                                  | Wattyl Australia                     | AS4020 Approval in 2009  | Coating                                |
| F-AA-13607                 | 2017                      | WR-300 Standard Wear Material      | -                                  | Greene, Tweed & Co                   | BS 6920 Approval         | Thermoplastic / PEEK composite         |
| F-AA-13607                 | 2017                      | WR-525 High Temperature Material   | -                                  | Greene, Tweed & Co                   | BS 6920 Approval         | Thermoplastic / PEEK composite         |
| F-AA-13607                 | 2017                      | WR-575 Thrust Pads                 | -                                  | Greene, Tweed & Co                   | BS 6920 Approval         | Thermoplastic / PEEK composite         |
| 7784039                    | 2012                      | Xypex Admix C-1000NF               | -                                  | Concrete Waterproofing Manufacturing | AS4020 Approval in 2012  | Concrete additive                      |
| 7784011                    | 2012                      | Xypex Admix C-5000                 | -                                  | Concrete Waterproofing Manufacturing | AS4020 Approval in 2012  | Concrete additive                      |
| 7783992                    | 2012                      | Xypex Concentrate                  | -                                  | Concrete Waterproofing Manufacturing | AS4020 Approval in 2012  | Coating                                |
| 7784118                    | 2012                      | Xypex Megamix I                    | -                                  | Concrete Waterproofing Manufacturing | AS4020 Approval in 2012  | Coating                                |
| 7784027                    | 2012                      | Xypex Megamix II                   | -                                  | Concrete Waterproofing Manufacturing | AS4020 Approval in 2012  | Mortar                                 |
| 7784102                    | 2012                      | Xypex Modified                     | -                                  | Concrete Waterproofing Manufacturing | AS4020 Approval in 2012  | Coating                                |
| 7784050                    | 2012                      | Xypex Patch N Plug                 | -                                  | Concrete Waterproofing Manufacturing | AS4020 Approval in 2012  | Coating                                |
| EHB-03010                  | 2011                      | Yokohama floating fender pneumatic | -                                  | Yokohama                             | On file                  | Plug on scour pipes.                   |
| EHB-01290                  | 2009                      | ZAVLAR Liquid Rubber               | -                                  | Liquid Rubber Australia              | On file                  | Internal coating for clear water tanks |

| <b>DoH<br/>REF /<br/>WC<br/>DOC NO</b> | <b>Year<br/>listed by<br/>DoH</b> | <b>PRODUCT</b> | <b>OTHER<br/>NAMES</b> | <b>COMPANY</b> | <b>APPROVAL<br/>TYPE</b>      | <b>RESTRICTION<br/>OR COMMENT</b> |
|--|-----------------------------------|----------------|------------------------|----------------|-------------------------------|-----------------------------------|
| 926576<br>1                            | 2013                              | Zinga          | -                      | Zinga Pty Ltd  | AS4020<br>Approval in<br>2013 | Coating                           |

### Notes

DoH            Department of Health (Western Australia)  
WC             Water Corporation of Western Australia

See also note on page 6.

## Schedule 5(a) – Approved Materials

The following table lists materials and products that have been approved by the Department of Health under Schedule 5 but which are understood to be no longer manufactured.

| <b>DoH REF</b> | <b>Year Approved</b> | <b>PRODUCT</b>                             | <b>COMPANY</b>                              | <b>RESTRICTION OR COMMENT</b>    |
|----------------|----------------------|--|---|----------------------------------|
| 00-06044       | 2000                 | AV 600M                                    | Grace Construction Products                 | No longer manufactured           |
| 92-08036/4     | 1993                 | Bostik 2638 Gun-grade polyurethane sealant | Bostik (Australia) Pty Ltd                  | No longer manufactured           |
| 86-00940       | 1986                 | Colturiet EHB                              | Wattyl-Sigma Coatings Wattyl-Sigma Coatings | No longer manufactured           |
| 86-00940       | 1986                 | Colturiet GPL                              | Wattyl-Sigma Coatings Wattyl-Sigma Coatings | No longer manufactured           |
| 88-08090/2     | 1985                 | Dulux Epoxy Bildcote                       | Dulux Australia                             | No longer manufactured           |
| 88-08090/17    | 1989                 | Dulux Ferrodor EPX Epoxy Paint             | Dulux Australia                             | No longer manufactured           |
| 00-06044       | 2000                 | GPR  | Grace Construction Products                 | No longer manufactured           |
| 88-08090/50    | 1992                 | Gruvlock Compound EP10059                  | Grinnell Supply Sales                       | No longer manufactured           |
| 88-08090       | 1985                 | Hot Water Resistant Epoxy                  | Taubmans Pty Ltd                            | No longer manufactured           |
| 7604378        | 2012                 | Jotacote 605                               | Jotun Australia Pty Ltd                     | No longer manufactured           |
| 88-08090/5     | 1988                 | Krystol                                    | Crommelin Chemicals (WA)                    | No longer manufactured           |
| 88-08090       | 1986                 | Pliseal AC                                 | Calmarc Chemicals                           | No longer manufactured           |
| 88-08090       | 1986                 | Pliseal S B                                | Calmarc Chemicals                           | No longer manufactured           |
| 88-08090       | 1989                 | Ranex Rust Converter                       | Landra Nominees Pty Ltd                     | Name change to Ranex Rust Buster |
| 92-08036       | 1997                 | Renderroc S                                | Fosroc Expandite NSW                        | No longer manufactured           |
| 88-08090       | 1989                 | Revenge rust converter                     | Landra Nominees Pty Ltd                     | No longer manufactured           |

| <b>DoH REF</b> | <b>Year Approved</b> | <b>PRODUCT</b>                              | <b>COMPANY</b>              | <b>RESTRICTION OR COMMENT</b>              |
|----------------|----------------------|---|-----------------------------|--|
| 88-08090/48    | 1991                 | Sigmaguard CSF 75                           | Wattyl (Qld)                | Name change to Sigmaguard CSF 575          |
| 88-08090       | 1985                 | Taubmans Clear Silicone Epoxy               | Taubmans Pty Ltd            | No longer manufactured                     |
| 88-08090       | 1985                 | Taubmans HiBuild Epoxy (Series 70)          | Taubmans Pty Ltd            | No longer manufactured                     |
| 90-08163       | 1992                 | Tubemakers rubber ring joint lubricant No 2 | Tubemakers Pty Ltd          | No longer manufactured                     |
| 88-08090       | 1986                 | Tufcote: Flexiglas (with Tufcote)           | Calmarc Chemicals           | No longer manufactured                     |
| 88-08090       | 1986                 | Tufseal 24S Flexiglas (with Attaflex)       | Calmarc Chemicals           | No longer manufactured                     |
| 88-08090/49    | 1992                 | Vinidex jointing lubricant                  | Vinidex                     | Replaced by Bactericidal Polydex Lubricant |
| 88-08090/10    | 1988                 | Nylon tapping bands                         | Stockbrands Company Pty Ltd | Replaced by Tapping bands 4N               |

#### Notes

DoH            Department of Health (Western Australia)

## Schedule 6 – Materials Assessed – Approved Subject To Condition

Schedule 6 lists products that are used during bore construction or maintenance, and have been approved subject to the conditions that:

- bores must be offline during construction;
- bores must be thoroughly flushed to waste prior to the production of drinking water;
- water quality is to be tested and assessed before the bore is commissioned; and
- products must be used in accordance with the manufacturer’s recommendations.

| <b>DoH REF</b> | <b>Year Assessed</b> | <b>PRODUCT</b>                    | <b>COMPANY</b>                            | <b>RESTRICTION OR COMMENT</b>   |
|----------------|----------------------|-----------------------------------|---|---|
| F-AA-13607     | 2022                 | ABB Water Bore Biocide            | Chemdrex                                  | To be removed from final production water.  |
| F-AA-13607     | 2022                 | ADPA                              | Chemdrex                                  | To be removed from final production water.  |
| F-AA-13607     | 2022                 | Alba                              | Chemdrex                                  | To be removed from final production water.  |
| F-AA-13607     | 2022                 | Alba Plus                         | Chemdrex                                  | To be removed from final production water.  |
| 88-08090/07    | 1990                 | ALBA Bore Treatment Antibacterial | Chem Chemicals and Malcolm Thompson Pumps | Flush bore for 30 minutes after application.  |
| F-AA-13607     | 2017                 | AMC Aus-Det Xtra                  | Australian Mud Company Pty Ltd            | To be removed from final production water.  |
| 04-06089       | 2004                 | AMC Aus-Gel Xtra                  | Australian Mud Company Pty Ltd            | To be removed from final production water.  |
| F-AA-13607     | 2019                 | AMC Bio Hammer Oil                | AMC Drilling Fluids and Products          | To be removed from final production water.  |
| F-AA-13607     | 2019                 | AMC Bio-Vis Xtra                  | Australian Mud Company Pty Ltd            | To be removed from final production water.  |
| 9772655        | 2013                 | AMC Clay Doctor                   | AMC                                       | To be removed from final production water.  |
| 9378501        | 2013                 | AMC Star Seal                     | AMC                                       | Hole stabilising additive used for air drilling. Used offline. Must be followed by a Pump Test or flushed for a minimum of two hours. |
| F-AA-13607     | 2022                 | AMC 117                           | IMDEX                                     | To be removed from final production water.  |
| F-AA-13607     | 2020                 | AMC EZEE PAC L                    | IMDEX                                     | To be removed from final production water.  |

| <b>DoH REF</b> | <b>Year Assessed</b> | <b>PRODUCT</b>  | <b>COMPANY</b>                   | <b>RESTRICTION OR COMMENT</b>              |
|----------------|----------------------|---|----------------------------------|--|
| F-AA-13607     | 2020                 | AMC EZEE PAC R  | IMDEX                            | To be removed from final production water. |
| F-AA-13607     | 2017                 | AMC Liqui Sperser   | Australian Mud Company Pty Ltd   | To be removed from final production water. |
| F-AA-13607     | 2017                 | AMC Magma Fiber   | Australian Mud Company Pty Ltd   | To be removed from final production water. |
| 04-06089       | 2004                 | AMC Aus-Det   | Australian Mud Company Pty Ltd   | To be removed from final production water. |
| 04-06089       | 2004                 | AMC Aus-Dex   | Australian Mud Company Pty Ltd   | To be removed from final production water. |
| 04-06089       | 2004                 | AMC Bio-Vis<br>(discontinued 2019)  | Australian Mud Company Pty Ltd   | To be removed from final production water. |
| F-AA-13607     | 2017                 | AMC Bore Seal   | Australian Mud Company Pty Ltd   | To be removed from final production water. |
| F-AA-13607     | 2019                 | AMC Ezee Bore   | AMC Drilling Fluids and Products | To be removed from final production water. |
| F-AA-13607     | 2017                 | AMC Guar Gum  | Australian Mud Company Pty Ltd   | To be removed from final production water. |
| F-AA-13607     | 2017                 | AMC Potassium Chloride  | Australian Mud Company Pty Ltd   | To be removed from final production water. |
| F-AA-13607     | 2017                 | AMC Shale Hib Ultra E   | Australian Mud Company Pty Ltd   | To be removed from final production water. |
| F-AA-13607     | 2019                 | AMC Super Lube  | Australian Mud Company Pty Ltd   | To be removed from final production water. |
| F-AA-13607     | 2019                 | Barite (Barium sulfate, Barytes, DFA Barite)  | Mud Logic WA Pty Ltd             | To be removed from final production water. |
| F-AA-13607     | 2021                 | Bento Grout Hi Swell  | AMCOL Australia Pty Ltd          | To be removed from final production water. |
| F-AA-13607     | 2019                 | Bentonite Pellets (1/4" Coated, Coated Bentonite Pellets, Hydration Retarded Bentonite Pellets) | Mud Logic WA Pty Ltd             | To be removed from final production water. |
| 122748837      | 2021                 | Bestolife 4010 NM   | Bestolife Corporation Texas USA  | To be removed from final production water. |
| F-AA-13607     | 2019                 | Bio Gum Ultra (Cyamopsis Gum, Guar Flour, Guaran, Gum Cyamopsis)                                | Mud Logic WA Pty Ltd             | To be removed from final production water. |



| <b>DoH REF</b> | <b>Year Assessed</b> | <b>PRODUCT</b>                   | <b>COMPANY</b>           | <b>RESTRICTION OR COMMENT</b>   |
|----------------|----------------------|----------------------------------|--------------------------|---|
| F-AA-13607     | 2019                 | Bio Hammer Oil (Hammer Oil)      | Mud Logic WA Pty Ltd     | To be removed from final production water.  |
| F-AA-13607     | 2019                 | Biocide (ADF Biocide)            | Mud Logic WA Pty Ltd     | To be removed from final production water.  |
| F-AA-13607     | 2022                 | BMR                              | Chemdrex                 | To be removed from final production water.  |
| 92-08036/06    | 1993                 | Boreclean                        | Boretech, Qld            | Rehabilitation of water bores. Product to be diluted to 10% and flush bore for 30 minutes before use. |
| 92-08036/07    | 1993                 | Boreclean forte                  | Carela Australia Pty Ltd | Rehabilitation of water bores. Product to be diluted to 10% and flush bore for 30 minutes before use. |
| F-AA-13607     | 2022                 | Boresafe                         | Puretec Group            | To be removed from final production water.  |
| 04-06133       | 2004                 | Ciba Alcomer 72L                 | ADG Technology Pty Ltd   | To be removed from final production water.  |
| F-AA-13607     | 2019                 | Clay Control                     | Mud Logic WA Pty Ltd     | To be removed from final production water.  |
| 06-06331       | 2006                 | Clearbore                        | Clearbore Pty Ltd        | To be removed from final production water.  |
| F-AA-13607     | 2019                 | Drill Det Ultra                  | Mud Logic WA Pty Ltd     | To be removed from final production water.  |
| EHB-01281      | 2009                 | DRILPLEX HDD                     | M-I Swaco Pty Australia  | To be removed from final production water.  |
| F-AA-13607     | 2022                 | EDCA                             | Chemdrex                 | To be removed from final production water.  |
| F-AA-13607     | 2018                 | Envirobore                       | Triple7                  | To be removed from final production water.  |
| EHB-01281      | 2009                 | FLO-PLEX                         | M-I Swaco Pty Australia  | To be removed from final production water.  |
| F-AA-13607     | 2019                 | Gel 100 (API Bentonite, Gel-100) | Mud Logic WA Pty Ltd     | To be removed from final production water.  |
| D-AA-16/27174  | 2016                 | Gel Extra                        | Mud Logic Pty Ltd        | To be removed from final production water.  |
| F-AA-13607     | 2019                 | Gel Extra (ADF Gel Extra)        | Mud Logic WA Pty Ltd     | To be removed from final production water.  |

| <b>DoH REF</b> | <b>Year Assessed</b> | <b>PRODUCT</b>  | <b>COMPANY</b>                 | <b>RESTRICTION OR COMMENT</b>              |
|----------------|----------------------|---|--------------------------------|--|
| F-AA-13607     | 2019                 | Gel Ultra   | Mud Logic WA Pty Ltd           | To be removed from final production water. |
| 04-06133       | 2004                 | Hibitrol HV   | ADG Technology Pty Ltd         | To be removed from final production water. |
| F-AA-13607     | 2019                 | Hy-Seal (ADF Hy-Seal)   | Mud Logic WA Pty Ltd           | To be removed from final production water. |
| F-AA-13607     | 2019                 | Kwik Seal (Kwik-Seal, Kwik Seal Coarse, Kwik Seal Medium, Kwik Seal Fine) | Mud Logic WA Pty Ltd           | To be removed from final production water. |
| F-AA-13607     | 2019                 | Liquid Sperse (ADF Liquid Sperse)   | Mud Logic WA Pty Ltd           | To be removed from final production water. |
| 04-06089       | 2004                 | Liqui-Pol   | Australian Mud Company Pty Ltd | To be removed from final production water. |
| F-AA-13607     | 2021                 | LQ2WE Stonedust   | Sibelco Australian Ltd         | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex 1560 XS FOAM  | Airdrill Pty Ltd               | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex BIT-COOL  | Airdrill Pty Ltd               | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex DD XPAND  | Airdrill Pty Ltd               | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex DD2000  | Airdrill Pty Ltd               | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex DD605L  | Airdrill Pty Ltd               | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex DD955   | Airdrill Pty Ltd               | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex E.S. Thread Compound  | Airdrill Pty Ltd               | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex FORM A CORE   | Airdrill Pty Ltd               | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex Hole Control  | Airdrill Pty Ltd               | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex RDO302ES  | Airdrill Pty Ltd               | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex SALT VIS P  | Airdrill Pty Ltd               | To be removed from final production water. |

| <b>DoH REF</b> | <b>Year Assessed</b> | <b>PRODUCT</b>                          | <b>COMPANY</b>          | <b>RESTRICTION OR COMMENT</b>              |
|----------------|----------------------|---|-------------------------|--|
| 2111 th1a      | 2012                 | Matex SALT-VIS                          | Airdrill Pty Ltd        | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex SAND DRILL                        | Airdrill Pty Ltd        | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex TORQUELESS                        | Airdrill Pty Ltd        | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex ULTRAVIS                          | Airdrill Pty Ltd        | To be removed from final production water. |
| 2111 th1a      | 2012                 | Matex VIBRA STOP                        | Airdrill Pty Ltd        | To be removed from final production water. |
| EHB-01281      | 2009                 | MAX GEL                                 | M-I Swaco Pty Australia | To be removed from final production water. |
| 04-06133       | 2004                 | Max Gel Poly pac – All grades           | ADG Technology Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Barite (Barytes)                  | Mudex Pty Ltd           | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Bentonite Chips                   | Mudex Pty Ltd           | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Bentonite Pellets 1/4" Coated     | Mudex Pty Ltd           | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Bio Hammer Oil 150, 220, 320, 460 | Mudex Pty Ltd           | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Bio Pipe Free                     | Mudex Pty Ltd           | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Bio Spot                          | Mudex Pty Ltd           | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Biocide                           | Mudex Pty Ltd           | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Bore Cleanser                     | Mudex Pty Ltd           | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Cement FR                         | Mudex Pty Ltd           | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Citric Acid                       | Mudex Pty Ltd           | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Clay Breaker                      | Mudex Pty Ltd           | To be removed from final production water. |

| <b>DoH REF</b> | <b>Year Assessed</b> | <b>PRODUCT</b>             | <b>COMPANY</b> | <b>RESTRICTION OR COMMENT</b>              |
|----------------|----------------------|----------------------------|----------------|--|
| F-AA-13607     | 2021                 | Mudex Clay-Star MT         | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Degreaser            | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Envirovis            | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Flash Grout          | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Floc Blocks          | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Floc X               | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Foam X (All grades)  | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Gel X (All grades)   | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Grout X              | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Poly Vis 2000        | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Poly Vis HV          | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Poly Vis Liquid      | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Poly Vis LV          | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Seal X               | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Slow Cement          | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Stargel (All grades) | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Truckwash            | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Vis PAC L \ LD       | Mudex Pty Ltd  | To be removed from final production water. |
| F-AA-13607     | 2021                 | Mudex Vis PAC R \ RD       | Mudex Pty Ltd  | To be removed from final production water. |

| <b>DoH REF</b>       | <b>Year Assessed</b> | <b>PRODUCT</b>             | <b>COMPANY</b>               | <b>RESTRICTION OR COMMENT</b>   |
|----------------------|----------------------|----------------------------|------------------------------|---|
| F-AA-13607           | 2021                 | Mudex Vis Trol             | Mudex Pty Ltd                | To be removed from final production water.  |
| F-AA-13607           | 2021                 | Mudex Vis Trol RD          | Mudex Pty Ltd                | To be removed from final production water.  |
| F-AA-13607           | 2021                 | Mudex X DET 202            | Mudex Pty Ltd                | To be removed from final production water.  |
| F-AA-13607           | 2021                 | Mudex X Frac (All grades)  | Mudex Pty Ltd                | To be removed from final production water.  |
| F-AA-13607           | 2021                 | Mudex X Plug (All grades)  | Mudex Pty Ltd                | To be removed from final production water.  |
| F-AA-13607           | 2021                 | Mudex XAN VIS (XAN XD)     | Mudex Pty Ltd                | To be removed from final production water.  |
| F-AA-13607           | 2021                 | Mudex ZN-50 (ZN 50)        | Mudex Pty Ltd                | To be removed from final production water.  |
| F-AA-13607           | 2019                 | Mud Free (ADF Break Down)  | Mud Logic WA Pty Ltd         | To be removed from final production water.  |
| 12506418<br>12506422 | 2015                 | Nu Well 100<br>Nu Well 110 | Bilfinger Water Technologies | Bore cleaner. Used offline - must be flushed for 30 minutes or until background pH is re-established, whichever is the longest. |
| D-AA-27176           | 2016                 | PAC L                      | Mud Logic Pty Ltd            | To be removed from final production water.  |
| F-AA-13607           | 2019                 | Pac L Ultra                | Mud Logic WA Pty Ltd         | To be removed from final production water.  |
| D-AA-16/27175        | 2016                 | PAC R                      | Mud Logic Pty Ltd            | To be removed from final production water.  |
| F-AA-13607           | 2019                 | Pac R Ultra                | Mud Logic WA Pty Ltd         | To be removed from final production water.  |
| 1220764<br>89        | 2021                 | Phosphoric acid, >= 60%    | Mudex Pty Ltd                | To be removed from final production water.  |
| 04-06133             | 2004                 | Poly-Plus (Liquid)         | ADG Technology Pty Ltd       | To be removed from final production water.  |
| 04-06133             | 2004                 | Poly-Plus Dry              | ADG Technology Pty Ltd       | To be removed from final production water.  |
| EHB-01281            | 2009                 | Polyswell                  | M-I Swaco Pty Australia      | To be removed from final production water.  |
| 04-06133             | 2004                 | Potassium chloride         | ADG Technology Pty Ltd       | To be removed from final production water.  |

| <b>DoH REF</b> | <b>Year Assessed</b> | <b>PRODUCT</b>                                | <b>COMPANY</b>                                | <b>RESTRICTION OR COMMENT</b>  |
|----------------|----------------------|---|---|--|
| F-AA-13607     | 2021                 | Potassium Chloride KCL                        | Mudex Pty Ltd                                 | To be removed from final production water.   |
| F-AA-13607     | 2019                 | Potassium Chloride                            | Mud Logic WA Pty Ltd                          | To be removed from final production water.   |
| 04-06133       | 2004                 | Potassium hydroxide                           | ADG Technology Pty Ltd                        | To be removed from final production water.   |
| F-AA-13607     | 2019                 | Rig Wash Ultra (Rig Wash)                     | Mud Logic WA Pty Ltd                          | To be removed from final production water.   |
| EHB-01281      | 2009                 | RINGFREE                                      | M-I Swaco Pty Australia                       | To be removed from final production water.   |
| EHB-01281      | 2009                 | ROD EASE                                      | M-I Swaco Pty Australia                       | To be removed from final production water.   |
| 04-06133       | 2004                 | SAPP (Sodium acid pyrophosphate)              | ADG Technology Pty Ltd                        | To be removed from final production water.   |
| 12506420       | 2015                 | Sulphamic acid                                | Challenge Chemicals Australia                 | Bore cleaner. Used offline. Must be flushed for 30 minutes or until background pH is re-established, whichever is the longest. |
| F-AA-13607     | 2021                 | Sulphamic acid                                | Redox Pty Ltd                                 | To be removed from final production water.   |
| 9856166        | 2013                 | Superfoam                                     | AMC   | Hole cleaning additive used for air drilling. Used Offline.  |
| D-AA-15/250809 | 2015                 | Super Gel-X                                   | CETCO   | To be removed from final production water.   |
| F-AA-13607     | 2019                 | Swell Hib (Hib Swell)                         | Mud Logic WA Pty Ltd                          | To be removed from final production water.   |
| D-AA-16/27172  | 2016                 | Terge   | Mud Logic Pty Ltd                             | To be removed from final production water.   |
| D-AA-16/27173  | 2016                 | VIS LV  | Mud Logic Pty Ltd                             | To be removed from final production water.   |
| 122068936      | 2021                 | Watersafe 60 (Acidsafe 80)                    | Environmental Manufacturing Solutions LLC USA | To be removed from final production water.   |
| 88-08090/41    | 1992                 | Wellchem Claysperse – Downhole Dispersant     | Challenge Chemicals Australia                 | Flush bore for 30 minutes  |
| 88-08090/41    | 1991                 | Wellchem Nu Antibac – Downhole Bacterial Acid | Challenge Chemicals Australia                 | Flush bore for 30 minutes  |

| <b>DoH REF</b> | <b>Year Assessed</b> | <b>PRODUCT</b>                                    | <b>COMPANY</b>                 | <b>RESTRICTION OR COMMENT</b>  |
|----------------|----------------------|---|--------------------------------|--|
| 88-08090/41    | 1992                 | Wellchem Well Clean – Downhole Antibacterial Acid | Challenge Chemicals Australia  | Flush bore for 30 minutes  |
| 04-06089       | 2004                 | Well-Clean  | Australian Mud Company Pty Ltd | To be removed from final production water.   |
| 1250642<br>2   | 2015                 | Well-Clean  | Pentair Southern Cross         | Bore cleaner. Used offline. Must be flushed for 30 minutes or until background pH is re-established, whichever is the longest. |
| 9772638        | 2013                 | Well Guard  | XTEX                           | Lubricant and Sealant. Used Offline.   |
| F-AA-13607     | 2019                 | Xan Vis   | Mud Logic WA Pty Ltd           | To be removed from final production water.   |
| 04-06089       | 2004                 | Xan-Bore  | Australian Mud Company Pty Ltd | To be removed from final production water.   |
| F-AA-13607     | 2019                 | ZN-50 (ZN 50)                                     | Mud Logic WA Pty Ltd           | To be removed from final production water.   |

### Notes

DoH                    Department of Health (Western Australia)



## Schedule 7 – Chemicals Approved for Addition to Drinking Water

Schedule 7 lists chemicals or products either accepted or approved by the Department of Health for addition to drinking water in Western Australia.

The addition of drinking water treatment chemicals shall be in accordance with Chapter 8, Drinking Water Treatment Chemicals, of the “*Australian Drinking Water Guidelines*” (ADWG).

Drinking water treatment chemical contaminants shall not exceed the Recommended Maximum Impurity Concentration (RMIC) as per Chapter 8 of the ADWG.

Chemicals and products approved for use to maintain water treatment and distribution systems are listed in [Schedule 8](#).

Materials approved for use in contact with drinking water are listed in [Schedule 5](#).

Products must be used in accordance with the manufacturer’s recommendations.

| CHEMICAL   | FORMULA   | REFERENCE                       | RESTRICTION OR COMMENT  |
|--|---|---------------------------------|---|
| Adsorbisia As600 Media (previously Adsorbisia GTO), now MetSorb HMRG | TiO <sub>2</sub><br>(typically 89%)             | DoH<br>F-AA-13607               | Arsenic monitoring shall be conducted in the reticulated supply as a key characteristic, until the lifespan of the product is determined. |
| Aluminium chlorohydrates   | AlCl(OH) <sub>5</sub>                           | NHMRC 2005                      | Coagulation   |
| Aluminium sulfate (alum)   | Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> | NHMRC 1983<br>AWWA B403         | Coagulation   |
| Ammonia (ammonium hydroxide)   | NH <sub>3</sub> (aq)                            | NHMRC 1983                      | Generation of chloramines for disinfection  |
| Ammonium sulfate   | (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> | NHMRC 1983<br>AWWA B302         | Generation of chloramines for disinfection  |
| Calcite (Barossa Quarries Pty Ltd)                                   | CaCO <sub>3</sub>                               | DoH F-AA-13607<br>NSF Approved  | In accordance with RMIC requirements of Chapter 8 of ADWG.  |
| Calcium carbonate (Filtracarb 2-4 DA)                                | CaCO <sub>3</sub>                               | DoH F-AA-13607<br>NSF Approved  | Dosing rate not to exceed 450 mg/L.   |
| Calcium carbonate (Redgate Lime)                                     | CaCO <sub>3</sub>                               | DoH 06-06032                    | In accordance with RMIC requirements of Chapter 8 of ADWG.  |
| Calcium carbonate (Imerys, Rotech Services)                          | CaCO <sub>3</sub>                               | DoH F-AA-13607,<br>NSF Approved | In accordance with RMIC requirements of Chapter 8 of ADWG.  |
| Calcium chloride (food grade)  | CaCl <sub>2</sub>                               | DoH 04-06352                    | Max rate 100 mg/L.<br>Food grade (99%) (contaminants <5 ppm Pb and <3 ppm As)   |
| Calcium hydroxide (hydrated lime)                                    | Ca(OH) <sub>2</sub>                             | NHMRC 1983<br>AWWA B202         | Corrosion control, pH correction, softening   |



| CHEMICAL  | FORMULA  | REFERENCE  | RESTRICTION OR COMMENT   |
|---|--|--|--|
| Calcium hypochlorite                                    | Ca(OCl) <sub>2</sub>   | NHMRC 1983<br>AWWA B300                            | Disinfection, oxidation  |
| Calcium oxide<br>(quick lime)                           | CaO  | NHMRC 1983<br>AWWA B202                            | Corrosion control, pH correction,<br>softening, coagulation aid  |
| Calgon T  | Sodium hexa-<br>metaphosphate                                    | AWWA B502  |  |
| Carbon dioxide<br>(99.9% purity v/v)                    | CO <sub>2</sub>  | DoH F-AA-13607                                     | Use in accordance with the<br>manufacturer's instructions.   |
| Carbon, granulated<br>activated (GAC)                   | C  | NHMRC 1983   | Adsorption   |
| Carbon, powdered<br>activated (PAC)                     | C  | NHMRC 1983<br>AWWA B600                            | Adsorption   |
| CAT-FLOC 8103<br>PLUS (pDADMACs)                        | -  | NSF/ANSI<br>Standard 60                            | Coagulation and flocculant aid.<br>Dosing rate not to exceed 57<br>mg/L.   |
| Chlorine  | Cl <sub>2</sub>  | NHMRC 1983<br>AWWA B301                            | Disinfection, oxidation  |
| Chlorine dioxide  | ClO <sub>2</sub>   | NHMRC 2005   | Disinfection, oxidation  |
| CleanOxide 75<br>Part A (P) and B<br>(Chlorine dioxide) | -  | DoH 2712th1a                                       |  |
| Copper sulphate   | CuSO <sub>4</sub> .5H <sub>2</sub> O                             | NHMRC 1983<br>AWWA B602                            | Algicide   |
| Ferric chloride   | FeCl <sub>3</sub> .6H <sub>2</sub> O                             | NHMRC 1983<br>AWWA B407                            | Coagulation  |
| Ferric sulphate   | Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>                  | NHMRC 1983<br>(95th Session,<br>p.27) AWWA<br>B406 | Coagulation  |
| Flopam EM430<br>(Polyacrylamide)                        | -  | NSF/ANSI<br>Standard 60                            | Coagulation and flocculant aid.<br>Dosing rate not to exceed 3 mg/L.   |
| GO2 Component A<br>and B (Chlorine<br>dioxide)          | -  | DoH 1707th1a                                       |  |
| Granular Activated<br>Alumina (DD – 6)                  | Al <sub>2</sub> O <sub>3</sub>                                   | NSF/ANSI<br>Standard 61                            |  |
| GMA Garnet  | Fe <sub>3</sub> Al <sub>2</sub> (SiO <sub>4</sub> ) <sub>3</sub> | DoH EHB-1085                                       | In accordance with RMIC<br>requirements of Chapter 8 of<br>ADWG. Not approved for use by<br>individual (home) consumers. |
| Hydrex 4715<br>(sodium metabisulfite)                   | Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>                    | 0a05th1a   | In accordance with RMIC<br>requirements of Chapter 8 of<br>ADWG.   |
| Hydrochloric acid                                       | HCl  | NHMRC 2005   | pH correction  |
| Hydrofluorosilicic acid<br>(fluorosilicic acid)         | H <sub>2</sub> SiF <sub>6</sub>                                  | NHMRC 1983<br>AWWA B703                            | Fluoridation - in accordance with<br>RMIC requirements of Chapter 8<br>of ADWG.  |

| CHEMICAL   | FORMULA   | REFERENCE  | RESTRICTION OR COMMENT   |
|--|---|--|--|
| Hydrogen peroxide  | H <sub>2</sub> O <sub>2</sub>   | NHMRC 1983   | Disinfection, oxidation  |
| Hydroxylated ferric sulphate                             | -   | NHMRC 2005   | Coagulation  |
| Nalclear 8170 PULV (Polyacrylamide)                      | -   | NSF/ANSI Standard 60   | Coagulation and flocculant aid. Dosing rate not to exceed 1 mg/L.  |
| Nalclear 8173 PULV (Polyacrylamide)                      | -   | NSF/ANSI Standard 60   | Coagulation and flocculant aid. Dosing rate not to exceed 1 mg/L.  |
| Nalclear 8181 (Polyacrylamide)                           | -   | NSF/ANSI Standard 60   | Coagulation and flocculant aid. Dosing rate not to exceed 1 mg/L.  |
| Nalclear 8182 (Polyacrylamide)                           | -   | NSF/ANSI Standard 60   | Coagulation and flocculant aid. Dosing rate not to exceed 1 mg/L.  |
| Nalco 7396 (Tetrapotassium pyrophosphate)                | -   | NSF/ANSI Standard 60   | Dosing rate not to exceed 29 mg/L.                                 |
| Nalco 3265 (pDADMACs)                                    | -   | NSF/ANSI Standard 60   | Coagulation and flocculant aid. Dosing rate not to exceed 40 mg/L. |
| Nalco 9597 (pDADMACs)                                    | -   | NSF/ANSI Standard 60   | Coagulation and flocculant aid. Dosing rate not to exceed 24 mg/L. |
| Nalcolyte 8105 (Polyamines)                              | -   | NSF/ANSI Standard 60   | Dosing rate not to exceed 20 mg/L.                                 |
| Optimer 8110 PULV (Polyacrylamide)                       | -   | NSF/ANSI Standard 60   | Coagulation and flocculant aid. Dosing rate not to exceed 1 mg/L.  |
| Oxpure ® 1240A-AW Granular Activated Carbon              | C   | DoH F-AA-13607   | Manufactured by Puragen Activated Carbons                          |
| Oxpure ® 1240C-AW Granular Activated Carbon              | C   | NSF / ANSI Standard 61 (confirmed 9/5/2022)  | Manufactured by Puragen Activated Carbons                          |
| Ozone  | O <sub>3</sub>  | NHMRC 2005<br>AWWA F120  | Disinfection, oxidation  |
| Polyacrylamides  | (C <sub>3</sub> H <sub>5</sub> NO) <sub>n</sub>   | NHMRC 1977<br>AWWA B453  | Coagulation aid, flocculation aid, filter aid                      |
| Polyacrylamides and acrylic acid polymers and copolymers | (CH <sub>2</sub> CHCONH <sub>2</sub> ) <sub>8</sub><br>and<br>(CH <sub>2</sub> CHCOOH) <sub>8</sub> | NHMRC 1977,<br>1979 (84 <sup>th</sup> Session<br>p.22 and 88 <sup>th</sup><br>Session, p.21) |  |
| Polyaluminium chlorides                                  | Al <sub>8</sub> (OH) <sub>10</sub> SO <sub>4</sub> Cl <sub>12</sub>                                 | NHMRC 1979 (88 <sup>th</sup><br>Session, pp.17-18)<br>AWWA B408                              | Coagulation  |
| Poly aluminium silica sulfates                           | Na <sub>12</sub> (AlO <sub>2</sub> )<br>(SiO <sub>2</sub> ) <sub>12</sub> .xH <sub>2</sub> O        | NHMRC 2005   | Coagulation  |
| Polydiallyldimethyl ammoniumchlorides (polyDADMACs)      | -   | NHMRC 1982<br>(93rd Session,<br>pp.19-20)  | Coagulation and coagulation aid                                    |

| CHEMICAL                                      | FORMULA  | REFERENCE                 | RESTRICTION OR COMMENT   |
|---|--|---------------------------|--|
| Potassium permanganate                        | KMnO <sub>4</sub>                                | NHMRC 1983<br>AWWA B603   | Disinfection, oxidation  |
| Quantum Filtration DMI 65                     | -  | DoH 06-06480              | Filtration media for iron and manganese removal. Chapter 8, ADWG conditions apply.   |
| Sodium aluminates                             | NaAlO <sub>2</sub>                               | NHMRC 1983<br>AWWA B405   | Coagulation  |
| Sodium bicarbonate                            | NaHCO <sub>3</sub>                               | NHMRC 1983                | Corrosion control, pH correction, softening  |
| Sodium carbonate (soda ash)                   | Na <sub>2</sub> CO <sub>3</sub>                  | NHMRC 1983<br>AWWA B201   | Corrosion control, pH correction, softening  |
| Sodium chloride (food grade)                  | NaCl   | DoH F-AA-64617            | Contact DoH for conditions relating to bromide and bromate levels when used in on-site chlorine generation.                |
| Sodium chloride (high purity)                 | NaCl   | DoH F-AA-13607            | Sodium chloride Ph.Eur./USP manufactured by Sudwestdeutsche Salzwerte AG.  |
| Sodium chloride (high purity)                 | NaCl   | DoH F-AA-13607            | Pure Dried Vacuum Salt manufactured by Dominion Salt NZ.   |
| Sodium fluoride                               | NaF  | NHMRC 1983<br>AWWA B701   | Fluoridation - in accordance with RMIC requirements of Chapter 8 of ADWG.  |
| Sodium fluorosilicate (sodium silicofluoride) | Na <sub>2</sub> SiF <sub>6</sub>                 | NHMRC 1983<br>AWWA B702   | Fluoridation - in accordance with RMIC requirements of Chapter 8 of ADWG.  |
| Sodium hexametaphosphate                      | (NaPO <sub>3</sub> ) <sub>6</sub>                | NHMRC 1983<br>AWWA B502   | Corrosion control  |
| Sodium hydroxide (caustic soda)               | NaOH   | NHMRC 1983<br>AWWA B501   | Corrosion control, pH correction, softening  |
| Sodium hypochlorite                           | NaOCl  | NHMRC 1983<br>AWWA B300   | Disinfection, oxidation. (NB – refer conditions re bromide and bromate levels if generated on-site using sodium chloride.) |
| Sodium metabisulphite                         | Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>    | DoH 06-06237<br>AWWA B601 | In accordance with RMIC requirements of Chapter 8 of ADWG.   |
| Sodium silicate                               | Na <sub>2</sub> O.xSiO <sub>2</sub><br>(x = 3-5) | NHMRC 1983<br>AWWA B404   | Coagulation aid, flocculation aid, pH correction, corrosion control  |
| Sodium tripolyphosphate                       | Na <sub>5</sub> P <sub>3</sub> O <sub>10</sub>   | NHMRC 2005                | Corrosion control, softening   |
| Sulfuric acid                                 | H <sub>2</sub> SO <sub>4</sub>                   | NHMRC 1983                | pH correction  |
| Tanamet crystals                              | -  | DoH 07-06010              | In accordance with RMIC requirements of Chapter 8 of ADWG. Not approved for use by individual (home) consumers.            |

| CHEMICAL  | FORMULA   | REFERENCE                                       | RESTRICTION OR COMMENT   |
|---|---|---|--|
| Ultrion 8188<br>(Polyaluminium chloride)                | -   | NSF/ANSI 60                                     | Coagulation and flocculant aid. Dosing rate not to exceed 180 mg/L.                |
| Ultrion 8588<br>(Aluminium chlorohydrates, polyDADMACs) | -   | NHMRC 1979<br>(88 <sup>th</sup> Session p17-18) | Coagulation and flocculant aid. In accordance with manufacturer's recommendations. |
| Ultrion 44560<br>(Polyamine)                            | -   | NSF/ANSI Standard 60                            | Coagulation and flocculant aid. Dosing rate not to exceed 84 mg/L.                 |
| Ultrion 44697<br>(Polyamine)                            | -   | NSF/ANSI Standard 60                            | Coagulation and flocculant aid. Dosing rate not to exceed 84 mg/L.                 |
| Zeolite ANZ38   |   | DoH 15/249004                                   | Contact DoH for information  |
| Zinc orthophosphate                                     | Zn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> | NHMRC 1987<br>(104 <sup>th</sup> Session p32)   | Corrosion control  |

### Notes

|            |   |
|------------|---|
| ADWG       | "Australian Drinking Water Guidelines" (v3.7, 2022)       |
| AWWA       | American Water Works Association Standards                |
| DoH        | Department of Health (Western Australia)                  |
| NHMRC      | National Health and Medical Research Council (Australia)  |
| NSF / ANSI | NSF International / American National Standards Institute |
| RMIC       | Recommended Maximum Impurity Concentration                |
| mg/L       | milligrams per litre                                      |

Magnetite (Fe<sub>3</sub>O<sub>4</sub>) and sodium alginate are no longer listed in Schedule 7.

## Schedule 8 – Chemicals and Products used to Maintain Water Treatment and Distribution Systems

Schedule 8 lists chemicals and products used to maintain water treatment and distribution systems that have been approved by the Department of Health.

Water treatment chemicals approved for use are listed in [Schedule 7](#).

Materials approved for use in contact with drinking water are listed in [Schedule 5](#).

Products must be used in accordance with the manufacturer's recommendations.

| DoH REF       | Year Approved | PRODUCT             | COMPANY                  | RESTRICTION OR COMMENT  |
|---------------|---------------|---------------------|--------------------------|---|
| DoH 0a045a    | 2010          | Aquamax RO608       | GE Betz Pty Ltd          | Anti-scalant in RO systems. Dosing rate not to exceed 10 mg/L.  |
| F-AA-13607    | 2023          | Ariceo CA 9250      | Has Holdings Pty Ltd     | Anti-scalant - dosing rate not to exceed 52 mg/L.   |
| 15/249004     | 2015          | Ascorbic acid       | Chem-Supply Pty Ltd.     | Used offline - membranes to be isolated prior to treatment and flushed prior to returning to service. |
| F-AA-13608/02 | 2017          | AvistaClean MF 1000 | Avista Technologies      | Product must be dosed offline and thoroughly flushed prior to drinking water production.              |
| F-AA-13608/02 | 2017          | AvistaClean MF 3000 | Avista Technologies      | Product must be dosed offline and thoroughly flushed prior to drinking water production.              |
| 2215 th1a     | 2012          | AWC A-102 Plus      | AS Harrison & Co Pty Ltd | Anti-scalant in RO systems. Dosing rate not to exceed 10 mg/L.  |
| F-AA-13608/02 | 2017          | AWC A-102 ULTRA     | AS Harrison & Co Pty Ltd | Anti-scalant in RO systems. Dosing rate not to exceed 10 mg/L.  |
| 2215 th2a     | 2012          | AWC A-103           | AS Harrison & Co Pty Ltd | Anti-scalant in RO systems. Dosing rate not to exceed 10 mg/L.  |
| F-AA-13607    | 2016          | AWC A-108Fe         | AS Harrison & Co Pty Ltd | Anti-scalant in RO systems. Dosing rate not to exceed 10 mg/L.  |
| 2215 th3a     | 2012          | AWC A-109           | AS Harrison & Co Pty Ltd | Anti-scalant in RO systems. Dosing rate not to exceed 10 mg/L.  |
| 2215 th4a     | 2012          | AWC C-205           | AS Harrison & Co Pty Ltd | Membrane cleaner. Contact DoH for conditions of approval.   |
| 2215 th5a     | 2012          | AWC C-236           | AS Harrison & Co Pty Ltd | Membrane cleaner. Contact DoH for conditions of approval.   |
| 1610 th1a     | 2011          | Belgard EV2050      | BWA Water Additives      | Anti-scalant in desalination plants. Dosing rate to not exceed 8 mg/L.                                |
| F-AA-13607    | 2017          | Belite AF10         | BWA Water Additives      | Defoamer in seawater distillation plant. Dosing rate not to exceed 0.15 mg/L in feed stream.          |

| <b>DoH REF</b>      | <b>Year Approved</b> | <b>PRODUCT</b>                           | <b>COMPANY</b>                 | <b>RESTRICTION OR COMMENT</b>  |
|---------------------|----------------------|--|--------------------------------|--|
| 1613 th1a           | 2011                 | Belite M8                                | BWA Water Additives            | Defoamer in seawater distillation plant. Dosing rate not to exceed 0.1 mg/L in feed stream.  |
| EHB-00870           | 2008                 | Bio D-Scaler                             | Bio Green Chemicals Pty Ltd    | Treated equipment to be flushed until water is clear.  |
| F-AA-13607          | 2019                 | BK Lubricant (BK Standard Lubricant)     | Thomas Grozier and Son Pty Ltd | Pipework to be flushed to remove product prior to use. Product is approved for use to a maximum water temperature of 60°C.                               |
| EHB-000092517 th1a  | 2008<br>2012         | BluBac Xtra                              | Clearbore Pty Ltd              | Flush equipment with at least 5 times the total treated volume with untreated water, or until pH is within 0.5 pH units of the original untreated water. |
| F-AA-13607          | 2018                 | BluBac Gold                              | Waterwell Solutions            | Flush equipment with at least 5 times the total treated volume with untreated water, or until pH is within 0.5 pH units of the original untreated water. |
| 7660813             | 2012                 | BoreSaver MULTIKLEEN                     | Aquabiotics Industrial Pty Ltd | Bore pipe and pump cleaner. Used offline - must be flushed for 30 minutes or until background pH is re-established, whichever is the longest.            |
| 01-06614 F-AA-13607 | 2001                 | Boresaver Ultra C Pro                    | Aquabiotics Pty Ltd            | Residual levels of copper and oxalate must comply with drinking water guidelines.  |
| F-AA-13607          | 2018                 | Boric acid                               | ChemSupply                     | Membrane cleaner, offline use only. Residual level of boron must be measured before drinking water is produced.  |
| 2117 th1a           | 2012                 | Calstat RO-30                            | WAT Australia Pty Ltd          | Anti-scalant in RO systems. Dosing rate not to exceed 10 mg/L.   |
| 88-08090/32         | 1990                 | Carela-Bio-Plus<br>Carela-Bio-Plus-Forte | George Roberts and Associates  | Application for bore treatment and water tanks (cleaning, disinfection) Flush bore for 30 minutes after treatment.                                       |
| EHB-00102           | 2007                 | Citric Acid                              | Redox Chemicals                | To clean ultra-filtration membranes. Isolate membranes from drinking water stream. Soak in water for 30 minutes prior to return to service.              |
| 2104 th1a           | 2012                 | Copper Citrate                           | Consolidated Chemical Company  | Contact DoH for conditions of approval.  |

| <b>DoH REF</b> | <b>Year Approved</b> | <b>PRODUCT</b>                             | <b>COMPANY</b>         | <b>RESTRICTION OR COMMENT</b>   |
|----------------|----------------------|--|------------------------|---|
| 07-06281       | 2007                 | DBNPA<br>2,2-dibromo-3-nitrilopropionamide | DOW<br>Chemicals       | To remove membrane biofouling.<br>Operational conditions apply.             |
| F-AA-25429     | 2013                 | Dequest SPE 0108                           | IMCD<br>Australia Ltd  | Anti-scalant in RO systems.<br>Dosing rate not to exceed 10 mg/L.           |
| F-AA-25429     | 2013                 | Dequest SPE 0111                           | IMCD<br>Australia Ltd  | Anti-scalant in RO systems.<br>Dosing rate not to exceed 17 mg/L.           |
| F-AA-13607-02  | 2018                 | EnviroScale                                | Triple7                | Contact DoH for conditions of approval.                                     |
| 85-01121/6     | 1986                 | Fertan Rust Converter                      | Fertan<br>Australia NZ | Rust treatment only.  |
| 1610 th1a      | 2011                 | Floclean MC11                              | BWA Water Additives    | RO membrane cleaner. Contact DoH for conditions of approval.                |
| 1610 th1a      | 2011                 | Floclean MC3                               | BWA Water Additives    | RO membrane cleaner. Contact DoH for conditions of approval.                |
| 1610 th2a      | 2011                 | Flocon 135                                 | BWA Water Additives    | Anti-scalant in RO systems.<br>Dosing rate not to exceed 10 mg/L.           |
| 1610 th3a      | 2011                 | Flocon 190                                 | BWA Water Additives    | Anti-scalant in RO systems.<br>Dosing rate not to exceed 10 mg/L.           |
| 1610 th4a      | 2011                 | Flocon 260                                 | BWA Water Additives    | Anti-scalant in RO systems.<br>Dosing rate not to exceed 5 mg/L.            |
| 1610 th5a      | 2011                 | Flocon 285                                 | BWA Water Additives    | Anti-scalant in RO systems.<br>Dosing rate not to exceed 9 mg/L.            |
| 1610 th6a      | 2011                 | Flocon Plus N                              | BWA Water Additives    | Anti-scalant in RO systems.<br>Dosing rate not to exceed 10 mg/L.           |
| EHB-00869      | 2008                 | Glycerol                                   | Klen<br>International  | Membranes to be purged to waste before being used to supply drinking water. |
| F-AA-13607     | 2016                 | GuardION 801                               | Baker<br>Hughes        | Anti-scalant in RO systems.<br>Dosing rate not to exceed 10 mg/L.           |
| 0a18th 2a      | 2010                 | Hydrex 4101                                | Veolia Water           | Anti-scalant in RO systems.   |
| 1811th 1a      | 2010                 | Hydrex 4102                                | Veolia Water           | Anti-scalant in RO systems.<br>Dosing rate not to exceed 17 mg/L.           |
| 1811th 2a      | 2010                 | Hydrex 4129                                | Veolia Water           | Anti-scalant in RO systems.<br>Dosing rate not to exceed 17 mg/L.           |
| 0a04th 3a      | 2010                 | Hydrex 4701                                | Veolia Water           | To clean filtration membranes.<br>Contact DoH for information.              |
| 0a04th 4a      | 2010                 | Hydrex 4703                                | Veolia Water           | To clean filtration membranes.<br>Contact DoH for information.              |
| 0a18th 1a      | 2010                 | Hydrex 4705                                | Veolia Water           | To clean filtration membranes.<br>Contact DoH for information.              |



| <b>DoH REF</b>  | <b>Year Approved</b> | <b>PRODUCT</b>                      | <b>COMPANY</b>             | <b>RESTRICTION OR COMMENT</b>  |
|-----------------|----------------------|-------------------------------------|----------------------------|--|
| 0a18th 1a       | 2010                 | Hydrex 4710                         | Veolia Water               | To clean filtration membranes. Contact DoH for information.  |
| F-AA-27304      | 2014                 | Hydrex 4720                         | Veolia Water               | Membrane cleaner. Contact DoH for information  |
| 0a04th 7a       | 2010                 | Hypersperse MDC220                  | GE Betz Pty Ltd            | Anti-scalant. Dosing rate not to exceed 10 mg/L.   |
| 0a04th 6a       | 2010                 | Hypersperse MSI300                  | GE Betz Pty Ltd            | Anti-scalant. Dosing rate not to exceed 10 mg/L.   |
| D-AA-15/250808  | 2015                 | Hypersperse MDC120                  | GE Betz Pty Ltd            | Anti-scalant for RO membranes. Dosing rate not to exceed 10 mg/L.  |
| D-AA-15/25 810  | 2015                 | Hypersperse MDC700                  | GE Betz Pty Ltd            | Anti-scalant for RO membranes. Dosing rate not to exceed 10 mg/L.  |
| 2222 th1a       | 2012                 | Hypersperse MDC704                  | GE Betz Pty Ltd            | Anti-scalant for RO membranes. Dosing rate not to exceed 10 mg/L.  |
| EHB-01731       | 2009                 | Hypersperse MDC707                  | GE Betz Pty Ltd            | Anti-scalant for RO membranes. Dosing rate not to exceed 10 mg/L.  |
| F-AA-13607-02   | 2017                 | Hypersperse MDC712                  | GE Betz Pty Ltd            | Anti-scalant for RO membranes. Dosing rate not to exceed 5 mg/L.   |
| D-AA-15/250 812 | 2015                 | Hypersperse MDC714                  | GE Betz Pty Ltd            | Anti-scalant for RO membranes. Dosing rate not to exceed 10 mg/L.  |
| F-AA-13607-02   | 2017                 | Hypersperse MDC716                  | GE Betz Pty Ltd            | Anti-scalant for RO membranes. Dosing rate not to exceed 10 mg/L.  |
| 2222 th1a       | 2012                 | Hypersperse MSI410                  | GE Betz Pty Ltd            | Anti-scalant for RO membranes. Dosing rate not to exceed 10 mg/L.  |
| 2109 th1a       | 2012                 | Kleen MCT 103                       | GE Betz Pty Ltd            | RO membrane cleaner. Contact DoH for conditions of approval.   |
| 2109 th1a       | 2012                 | Kleen MCT 511                       | GE Betz Pty Ltd            | RO membrane cleaner. Contact DoH for conditions of approval.   |
| D-AA-15/250811  | 2015                 | Kleen MCT 515                       | GE Betz Pty Ltd            | RO membrane cleaner. Contact DoH for conditions of approval.   |
| D-AA-19/1430    | 2019                 | Kuriverter IK-110                   | Kurita Singapore           | RO membrane cleaner. Dosing rate not to exceed 50 mg/L. Approval for product manufactured in Singapore only. |
| 1c08th1a        | 2011                 | Manganese (II) Sulphate Monohydrate | Chem Supply Pty Ltd        | Filter media conditioning. Contact DoH for conditions of approval  |
| 977258 5        | 2013                 | Orange Aid                          | Natural Drilling Equipment | Lubricant and Sealant. Used Offline - must be used in accordance with manufacturer's instructions.           |



| <b>DoH REF</b> | <b>Year Approved</b> | <b>PRODUCT</b>  | <b>COMPANY</b>  | <b>RESTRICTION OR COMMENT</b>  |
|----------------|----------------------|---|-----------------|--|
| 1928th1a       | 2011                 | Osmoclean CD  | Osmoflo Pty Ltd | Contact DoH for conditions of approval.  |
| 1817th2a       | 2011                 | Osmoclean DW  | Osmoflo Pty Ltd | Contact DoH for conditions of approval.  |
| 1817th1a       | 2011                 | OsmoDechlor   | Osmoflo Pty Ltd | Contact DoH for conditions of approval.  |
| 151125gs1a     | 2015                 | Osmosan   | Osmoflo Pty Ltd | Contact DoH for conditions of approval.  |
| 1a03th2a       | 2011                 | Osmotreat   | Osmoflo Pty Ltd | Contact DoH for conditions of approval.  |
| 1a03th1a       | 2011                 | Osmotreat Si  | Osmoflo Pty Ltd | Contact DoH for conditions of approval.  |
| 88-08090/44    | 1991                 | PALTEM  | Balfour Beatty  | Pipeline Auto Lining System  |
| F-AA-34166     | 2015                 | PermaCare PC-504T                                       | Nalco           | Filtration membrane antifoulant. Dosing rate not to exceed 15 mg/L.                                  |
| F-AA-34166     | 2015                 | PermaCare PC-510T                                       | Nalco           | Filtration membrane Anti-scalant. Dosing rate not to exceed 10 mg/L.                                 |
| F-AA-34166     | 2015                 | PermaCare PC-1020T                                      | Nalco           | Filtration membrane antifoulant. Dosing rate not to exceed 26 mg/L.                                  |
| F-AA-34166     | 2015                 | PermaCare POSM 35T                                      | Nalco           | Anti-scalant in RO systems. Dosing rate not to exceed 15 mg/L.                                       |
| F-AA-34166     | 2015                 | PermaCare POSM 352T                                     | Nalco           | Anti-scalant in RO systems. Dosing rate not to exceed 45 mg/L.                                       |
| 8343520        | 2013                 | PermaClean PC-11  | Nalco           | Disinfect and sanitise membrane plants. Must be used in accordance with manufacturer's instructions. |
| F-AA-34166     | 2015                 | PermaClean PC-33  | Nalco           | Must be used in accordance with manufacturer's instructions.   |
| F-AA-34166     | 2015                 | PermaClean PC-40  | Nalco           | Must be used in accordance with manufacturer's instructions.   |
| F-AA-34166     | 2015                 | PermaClean PC-67  | Nalco           | Must be used in accordance with manufacturer's instructions.   |
| EHB-03010      | 2011                 | PermaClean PC 77  | Nalco           | Filtration membrane cleaner. Contact DoH for conditions of approval.                                 |
| F-AA-13607     | 2022                 | PermaClean PC-97A                                       | Nalco           | Must be used in accordance with manufacturer's instructions.   |
| F-AA-13608/02  | 2018                 | Permaduo system<br>PermaClean PC-22<br>PermaClean PC-80 | Nalco           | Control of biological membrane fouling. Contact DoH for conditions of approval.                      |

| <b>DoH REF</b> | <b>Year Approved</b> | <b>PRODUCT</b>               | <b>COMPANY</b>                  | <b>RESTRICTION OR COMMENT</b>  |
|----------------|----------------------|------------------------------|---------------------------------|--|
| F-AA-34166     | 2015                 | PermaTreat PC-191T           | Nalco                           | Anti-scalant in RO systems. Dosing rate not to exceed 15 mg/L.   |
| F-AA-34166     | 2015                 | PermaTreat PC-391T           | Nalco                           | Anti-scalant in RO systems. Dosing rate not to exceed 45 mg/L.   |
| D-AA-15/288265 | 2015                 | Phoslock                     | Phoslock Water Solutions        | Limited source water reservoir application only, subject to specific conditions including monitoring for free lanthanum. Contact DoH for conditions of approval. |
| 99-06524       | 2003                 | Quinplex White Oil (4010 H1) | Lubrication Engineers Australia | Artesian bore lubricant  |
| 9772660        | 2013                 | Rheobuild 561                | BASF                            | Concrete Additive. Used Offline - must be used in accordance with manufacturer's instructions.   |
| 1b15th1a       | 2011                 | Rhodamine WT                 | Abbey Color                     | Tracer dye. Contact DoH for conditions of approval.  |
| F-AA-13608/02  | 2017                 | RoClean L211                 | Avista Technologies             | Product must be dosed offline and thoroughly flushed prior to drinking water production.   |
| F-AA-13608/02  | 2017                 | RoClean L403                 | Avista Technologies             | Product must be dosed offline and thoroughly flushed prior to drinking water production.   |
| F-AA-13608/02  | 2017                 | RoClean P111                 | Avista Technologies             | Product must be dosed offline and flushed with 5 volumes of water prior to drinking water production.  |
| F-AA-13608/02  | 2017                 | RoClean P903                 | Avista Technologies             | Product must be dosed offline and flushed with 5 volumes of water prior to drinking water production.  |
| F-AA-13607     | 2021                 | ROPUR RPI-2000               | Toray Membrane Europe AG        | Anti-scalant in RO systems; dosing rate not to exceed 20 mg/L.   |
| F-AA-13607     | 2021                 | ROPUR RPI-3000A              | Toray Membrane Europe AG        | Anti-scalant in RO systems; dosing rate not to exceed 30 mg/L.   |
| F-AA-13607     | 2021                 | ROPUR RPI-3000B              | Toray Membrane Europe AG        | Anti-scalant in RO systems; dosing rate not to exceed 30 mg/L.   |
| F-AA-13607     | 2021                 | ROPUR RPI-4000A              | Toray Membrane Europe AG        | Anti-scalant in RO systems; dosing rate not to exceed 30 mg/L.   |
| F-AA-13607     | 2021                 | ROPUR RPI-4000B              | Toray Membrane Europe AG        | Anti-scalant in RO systems; dosing rate not to exceed 30 mg/L.   |
| F-AA-13607     | 2021                 | ROPUR RPI-4900               | Toray Membrane Europe AG        | Distillation and anti-scalant in RO systems; dosing rate not to exceed 15 mg/L.  |

| DoH REF    | Year Approved | PRODUCT                | COMPANY             | RESTRICTION OR COMMENT   |
|------------|---------------|------------------------|---------------------|--|
| 2103 th1a  | 2012          | Sodium Lauryl Sulphate | KLEN International  | Membrane cleaner. Contact DoH for conditions of approval.  |
| F-AA-13607 | 2017          | Vitec 1400             | Avista Technologies | Anti-scalant in RO systems. Dosing rate not to exceed 30 mg/L.                                     |
| F-AA-13607 | 2017          | Vitec 1500             | Avista Technologies | Anti-scalant in RO systems. Dosing rate not to exceed 9 mg/L.                                      |
| F-AA-13607 | 2017          | Vitec 4000             | Avista Technologies | Anti-scalant in RO systems. Dosing rate not to exceed 7 mg/L.                                      |
| F-AA-13607 | 2017          | Vitec 7000             | Avista Technologies | Anti-scalant in RO systems. Dosing rate not to exceed 7 mg/L.                                      |
| 9772638    | 2013          | Well Guard             | XTEX                | Lubricant and Sealant. Used Offline - must be used in accordance with manufacturer's instructions. |

### Notes

ADWG "Australian Drinking Water Guidelines" (v3.7, 2022)

DoH Department of Health (Western Australia)

RO Reverse Osmosis

mg/L milligrams per litre

See also note on page 6.

## Schedule 8(a) – Chemicals and Products used to Maintain Water Treatment and Distribution Systems

The following table lists products that have been previously approved by the Department of Health under Schedule 8 but which are understood to be no longer manufactured.

| DoH REF     | Year Approved | PRODUCT            | COMPANY                              | RESTRICTION OR COMMENT   |
|-------------|---------------|--------------------|--------------------------------------|--|
| 88-08090/47 | 1991          | Occtech D24        | Occtech Corp. Pty Ltd<br>O'Connor WA | No longer manufactured.  |
| EHB-03010   | 2011          | PermaClean PC-98   | Nalco                                | No longer manufactured.  |
| EHB-03010   | 2011          | PermaClean PC 99   | Nalco                                | No longer manufactured.  |
| 06-06355    | 2006          | PermaTreat PC 191  | Ondeo Nalco                          | No longer manufactured. Replaced by PermaTreat PC191T (refer Schedule 8).  |
| 06-06357    | 2006          | PermaTreat PC 510  | Ondeo Nalco                          | No longer manufactured. Replaced by PermaTreat PC510T (refer Schedule 8).  |
| 06-06356    | 2006          | PermaTreat PC 1020 | Ondeo Nalco                          | No longer manufactured. Replaced by PermaTreat PC1020T (refer Schedule 8). |

### Notes

DoH                    Department of Health (Western Australia)

## Schedule 9 – Chemicals and Materials used in Drinking Water Catchment Areas

The following table lists chemicals and materials that have been assessed and approved by the Department of Health for use in drinking water catchment areas in Western Australia.

Products must be used in accordance with the manufacturer's recommendations.

| <b>DoH REF</b> | <b>Year Approved</b> | <b>PRODUCT</b>            | <b>COMPANY</b>                   | <b>RESTRICTION OR COMMENT</b>   |
|----------------|----------------------|---------------------------|----------------------------------|---|
| EHB-02152      | 2009                 | Aquatain                  | Ultimate Products (Aust) Pty Ltd | Contact DoH for information   |
| 03-07168       | 2009                 | Road Master               | Road Master Pty Ltd              | Road base stabilization   |
| 04-06898       | 2006                 | PK-4 (surface stabilizer) | Eco Enzymes Australia            | Only surfaces that are not subjected to continual immersion may be treated. |
| 06-06330       | 2007                 | Polycom                   | Biocentral Laboratories          |   |

### Notes

DoH                    Department of Health (Western Australia)

## Schedule 10 – Fire Suppressants and Fire Retardants in Drinking Water Catchment Areas

The following table lists fire suppressants and fire retardants that are currently used in fire-fighting operations by the WA Department of Biodiversity, Conservation and Attractions, Parks and Wildlife Service Fire Management Services Branch.<sup>8</sup>

These products have not been formally assessed for approval by the Department of Health as they are used in emergency situations in localised applications. The Department of Health acknowledges that in emergency situations fire suppressants and fire retardants that are efficient treatments for bushfires are used as necessary.

| <b>PRODUCT</b>                          | <b>COMPANY</b>         |
|---|------------------------|
| Phos-Chek WD881 Class A Foam            | PC Australasia Pty Ltd |
| Phos-Chek MVP-F Powdered Fire Retardant | PC Australasia Pty Ltd |

The following table lists products that are regarded as acceptable for use as vehicle mounted firefighting foam products within a public drinking water catchment area in Western Australia, subject to the conditions listed overleaf.

| <b>PRODUCT</b>                                      | <b>COMPANY</b>                   |
|---|----------------------------------|
| Foamguard-F3 Fluorine Free Foam                     | Fire & Safety Industries Pty Ltd |
| FREEDOL SF Fluorine Free Foam                       | Wormald Australia                |
| VDAS-F3 Fluorine Free Foam                          | Qtec Fire Services Pty Ltd       |
| Chubb PEFS F3N Foam<br>(alternative name SILVARA I) | VS FOCUM, S.L.                   |

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<sup>8</sup> Further information about fire management is at: [www.dpaw.wa.gov.au/management/fire](http://www.dpaw.wa.gov.au/management/fire)

Conditions for use of vehicle mounted firefighting foam products in Schedule 10:

- Usage shall be in accordance with the manufacturer's recommendations, with due regard to occupational safety for users or operators and any relevant Dangerous Goods requirements; and
- The products may be stored on vehicles (including mobile drill rigs and locomotives) operating in a public drinking water catchment area and may be used at any time as necessary to extinguish vehicle related fires, but any training or practice exercise in their use must take place outside the public drinking water catchment area; and
- If the vehicle mounted fire suppression system is activated in order to extinguish a fire, then any product, contaminated soil and contaminated water shall be removed from the public drinking water catchment area as soon as practicable in accordance with regulatory requirements; and
- A maximum quantity of 5000 litres of each product may be stored off vehicle or prepared for use in a public drinking water catchment area, provided this only occurs at an off vehicle storage area that is bunded to prevent spillage or uncontrolled release to the environment in accordance with regulatory requirements, and is where possible also roofed or covered; and
- Any disposal, depressurisation or discharge of unused products, other than in extinguishing a vehicle fire, shall take place at the off vehicle storage area referred to above or at a location outside the public drinking water catchment area; and
- Routine service of the fire suppression systems shall be undertaken in accordance with the Inspection, Test and Preventative Maintenance Schedules of AS 5062 "*Fire protection for mobile and transportable equipment*", which mitigates the likelihood of uncontrolled release of the system, unless a heat ignition initiated event occurs; and
- Re-approval for use in a public drinking water catchment area in Western Australia must be sought if there is any change in the formulation of the products.

Products that are not listed in Schedule 10 are not acceptable for use as vehicle mounted fire-fighting foam products within a public drinking water catchment area in Western Australia, unless with express written agreement from the Department of Health WA or in accordance with a phase-out strategy endorsed by the Department of Water and Environmental Regulation WA.

## More information

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