

S E S E N V I R O N M E N T A L

SES ENVIRONMENTAL PROTECTION PTY LTD.

Scale Inhibitor





1. SEP-5136 Scale inhibitor

5136 is a highly effective multi-functional scale inhibitor that can be applied to reverse osmosis (RO), nanofiltration (NF), and electro dialysis (EDR) systems. It can effectively prevent the deposition and fouling of various scaling substances, especially calcium sulfate, on the membrane surface. In addition to effectively controlling the deposition of calcium sulfate, 5136 can also effectively control the scaling and deposition of calcium carbonate, calcium fluoride and various metal oxides. 5136 is certified by major membrane suppliers and is also UL certified to ANSI/NSF Standard 60 for drinking water. It can be used in various reverse osmosis, nanofiltration and electro dialysis systems for the production of drinking water.

1.1 Physical and chemical properties of the product

Appearance: Clear pale yellow liquid

pH: 4.5-6.5

-5 Boiling point: > 100°C

Specific gravity (20°C) :.20-1.30

Flash point: Non-flammable, aqueous solution

1.2 Product Features

5136 is not affected by oxidizing biocides such as chlorine. It is recommended that 5136 be added to the system after chlorine (hypochlorous acid), sodium bisulfite, etc.

1.3 Environment and recommendations for use

5136 is an aqueous solution and is somewhat corrosive. A corrosion-resistant dosing system should be selected. The available materials are PVC, enamel, fiberglass, PP and HDPE. The dosage of the product is determined by the quality of the influent water, the process conditions of the system (such as recovery rate), and the saturation of various scaling substances in the concentrated water.

The recommended dosing method is to add the dosing directly to the feed water. The specific dosing position is after the multi-media filter, the ultrafiltration, and before the security filter. 5136 is fully soluble in water and can be mixed with water in any proportion. It can be added directly to the stock solution or diluted with the product water. The minimum concentration requirement after dilution is no less than 10%. 5136 must be continuously and in full dosage added to the influent.

1.4 Health and safety

5136 is a non-toxic product. For details, please refer to the Product Safety Data Sheet (MSDS).

1.5 Shipping Information

Railway/Highway: ADR/RID grade: 8; Packaging classification: III; Hazchem code: 2X; Kemler: : 80

Shipping: UN classification: 8; UN n°: 3265; Packaging classification: III

Air Transport: ICAO/IATA class: 8

1.6 Product packaging and warranty period

5136 is available in 25kg small drums, 260kg large drums and 1200kg standard IBC packaging. Under normal transport and storage conditions, 5136 products have a shelf life of 2 years.



2. SEP-0108 Scale inhibitor

0108 is a highly effective multi-functional scale inhibitor. This product is a double concentrate and can be applied to reverse osmosis (RO), nanofiltration (NF), and electro dialysis (EDR) systems. It can effectively prevent various scaling substances, especially silicon (Si), from depositing and fouling on membrane surfaces.

In addition to effectively controlling silicon deposition, 0108 can also effectively control scaling and deposition of calcium carbonate, calcium sulfate, barium sulfate, strontium sulfate, calcium fluoride and various metal oxides. In addition, 0108 is UL certified to ANSI/NSF Standard 60 for drinking water and can be used in various reverse osmosis, nanofiltration and electro dialysis systems for the production of drinking water.

2.1 Physicochemical properties of the product

The following are the main physicochemical properties of product 0108. We can provide a more detailed product specification sheet if necessary.

Appearance: Clear pale yellow liquid

pH: 1.5-3.5

Boiling point: > 100°C

Specific gravity (20°C) : 1.15-1.25

Flash point: Non-flammable, aqueous solution

2.2 Chemical reaction properties

0108 is not affected by oxidizing biocides such as chlorine gas. It is recommended that 0108 be added to the system after chlorine gas (hypochlorous acid), sodium bisulfite, etc. 0108 is well compatible with cationic polymers remaining in the water from the pretreatment process.

2.3 Application and dosing range

0108 is a water solution and is somewhat corrosive, so a corrosion-resistant dosing system should be selected. The available materials are PVC, enamel, fiberglass, PP and HDPE.

The dosage of the product is determined by the quality of the influent water, the process conditions of the system (such as recovery rate), and the saturation of various scaling substances in the concentrated water.

The recommended dosing method is to add the dosing directly to the feed water. The specific dosing position is after the multi-media filter, the ultrafiltration, and before the security filter.

0108 is completely soluble in water and can be mixed with water in any proportion. It can be added directly to the stock solution or diluted with the product water. The minimum concentration requirement after dilution is no less than 10%. 0108 must be continuously and in full dosage added to the influent.

2.4 Health and safety

0108 is a non-toxic product. For details, please refer to the Product Safety Data Sheet (MSDS).

2.5 Shipping Information

Railway/Road: ADR/RID grade: 8; Packaging classification: III; Hazchem code: 2X; Kemler: : 80

Shipping: UN classification: 8; UN n°: 3265; Packaging classification: III

Air Transport: ICAO/IATA class: 8

2.6 Product packaging and warranty period

0108 is available in 25kg small drums, 260kg large drums and 1200kg standard IBC packaging. Under normal transport and storage conditions, 0108 products have a shelf life of 2 years.

3. SEP-1834 Scale inhibitor

1834 is a highly efficient multi-functional phosphorus-free scale inhibitor with excellent scale inhibition performance and low dosage. The product is a fourfold concentrate. It can be applied to reverse osmosis (RO), nanofiltration (NF) and electrodialysis (EDR) systems. It can effectively prevent the deposition and fouling of various scaling substances, especially calcium carbonate and calcium sulfate on the membrane surface, while also effectively controlling the scaling and deposition of barium sulfate, strontium sulfate, calcium fluoride and various metal oxides.

1834 has excellent antimicrobial reproductive capacity and is less likely to cause microbial growth, making it particularly suitable for systems with a high tendency of microbial contamination. In addition, 1834 is UL certified to ANSI/NSF Standard 60 for drinking water and can be used in various reverse osmosis, nanofiltration and electrodialysis systems for the production of drinking water.

3.1 Physicochemical properties of the product

The following are the main physicochemical properties of the 1834 product. We can provide a more detailed product specification sheet if necessary.

Appearance: Pale yellow liquid

pH: 7.5-8.5

Boiling point: > 100°C

Specific gravity (20°C) : 1.20-1.30

Flash point: Non-flammable, aqueous solution

3.2 Chemical reaction properties

1834 is not affected by oxidizing biocides such as chlorine. It is recommended that 1834 be added to the system after chlorine (hypochlorous acid), sodium bisulfite, etc.

3.3 Application and dosing range

1834 is an aqueous solution and is somewhat corrosive, so a corrosion-resistant dosing system should be selected. The available materials are PVC, enamel, fiberglass, PP and HDPE.

The dosage of the product is determined by the quality of the influent water, the process conditions of the system (such as recovery rate), and the saturation of various scaling substances in the concentrated water.

The recommended dosing method is to add the dosing directly to the feed water. The specific dosing position is after the multi-media filter, the ultrafiltration, and before the security filter.

1834 is fully soluble in water and can be mixed with water in any proportion. It can be added directly to the stock solution or diluted with the product water. The minimum concentration requirement after dilution is no less than 10%. 1834 must be continuously and adequately added to the influent.

3.4 Health and safety

1834 is a non-toxic product. For specific details, please refer to the Product Safety Data Sheet (MSDS).

3.5 Shipping Information

Railway/Road: ADR/RID grade: 8; Packaging classification: III; Hazchem code: 2X; Kemler: : 80

Shipping: UN classification: 8; UN n°: 3265; Packaging classification: III

Air Transport: ICAO/IATA class: 8

3.6 Product packaging and warranty period

1834 is available in 25kg small drums, 260kg large drums and 1200kg standard IBC packaging. Under normal transport and storage conditions, 1834 products have a shelf life of 2 years.



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