SulfaLock™ provides the following benefits:

- **Odour control** - SulfaLock™ prevents the release of H₂S from wastewater streams to air by raising the pH.
- **Odour prevention** - SulfaLock™ inhibits the growth of sulphide producing bacteria, preventing the formation of hydrogen sulphide.
- **Corrosion prevention** - SulfaLock™ use prevents corrosion - as reducing H₂S levels lowers the potential for biological conversion to Sulphuric Acid, this ensures your equipment lasts longer.
- **pH stability** - SulfaLock™ increases the alkalinity of effluent streams, supporting effective biological effluent treatment.
- **Easy to Use** - SulfaLock™ buffers around pH 9, making it easy to target the right level.
- **Safer handling and transport** - SulfaLock™ is a non-Dangerous Good.

SulfaLock™ is a low viscosity high concentration, magnesium hydroxide liquid (MHL). Ixom was the first to produce MHL in Australia and has more than 20 years’ experience in manufacture and handling. Today Ixom’s superior manufacturing processes ensures a more consistent quality product.

SulfaLock™ has an available alkalinity of 1.6 times an equivalent weight of caustic. This means less chemical is required to raise pH to the required level for H₂S control.

SulfaLock™ is added directly to sewers, pump stations and wastewater streams.

SulfaLock™ can gently raise the pH level as it dissolves over time.

Only 50 to 100L of SulfaLock™ is generally needed per million litres of water to hold the pH in the range of 8 to 8.5

Increasing pH from 7 to 8.5 increases the solubility of hydrogen sulphide in wastewater from 50% to over 97%.

**Figure 1:** SulfaLock raises the pH to stop the process of H₂S odour generation and corrosion in sewers

**Figure 2:** Sulphide species Concentration vs pH.

**Figure 3:** SulfaLock™ Storage Tank - Dosing SulfaLock™ from a bulk installation to a manhole to eliminate odour problems.

Ixom has a wide range of capabilities to ensure we can meet your challenge.

- All the chemicals you need for water and wastewater treatment in one place.
- Stock management made easy with Ixom monitored telemetry.
- Advice for selecting and implementing the right solution from Ixom’s experienced team of scientists, engineers and technical specialists.
- Practical, customised and innovative engineering solutions from Ixom’s Water Treatment Services team.
- Support when you need it on 1800 033 111 with 24/7 Ixom Emergency Response Service.
- Quality product manufactured and distributed according with ISO 9001 approved quality processes.

**Water utilities and manufacturers are facing new challenges:**

- Closer residential development - Neighbours are more sensitive to offsite impacts
- Increased cost focus - Need to protect equipment and infrastructure to reduce significant costs of replacement
- Environmental compliance - increasing regulation and standards around wastewater discharge
- Innovative solutions need to be found to ensure continued success

**At Ixom we thrive on solving our customers’ challenges and have a range of solutions to meet any need**
Solving Your Challenges for Generations

**2015 - Beyond 2015**

**2015**
Ixom separates from Orica as a stand-alone company and remains a market leader in water treatment and chemical distribution in Australia and New Zealand, with a growing presence in Latin America and Asia.

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**2000s - 2015**

**2008**
Chemnet, Watercare and Chlor Alkali businesses merge to form Chemicals Group

**2005**
Chemnet’s specialty distribution business expands with acquisition of Keith Harris Flavours and Fragrances Watercare and Speciality Services businesses acquire Aluminates Chemical Industries

**2001**
Orica Watercare Inc. incorporated in USA

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**1970s - 1990**

**1997-98**
ICI divests ICI Australia shareholding and the independent ICI Australia becomes Orica

**1997**
Sulfalock™ is first used to solve wastewater odour and pH adjustment challenges

**1988**
Watercare Division established

**1971**
ICIANZ becomes ICI Australia

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**1920s**

**1928**
Imperial Chemical Industries of Australia and New Zealand (ICIANZ) registered

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What’s your challenge?

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