

PRODUCT CATALOGUE



Lo-Chlor Chemicals is proudly Australian owned and all its products are 100% Australian made. Having serviced the swimming pool industry since its inception in 1979, Lo-Chlor Chemicals is the leading manufacturer of specialty pool and spa chemicals. Now sold in more than 45 countries around the world the Lo-Chlor name is one of the most trusted and well known in the industry.

THE AUSSIE SOLUTIONS

#becauseitworks

Lo-Chlor Chemicals is globally recognised as the market leader in specialised pool and spa water treatment. Lo-Chlor is 100% Australian owned and Australian made and now exports to more than 45 countries around the globe. Innovation and design remain at the forefront of the company's strategy to bring the pool and spa industry the highest quality and performance in specialty pool and spa chemicals.

Andrew Simons the founder of Lo-Chlor chemicals (1946 – 2006) graduated as a pharmacist from Sydney University in the early 1970's. After graduating Andrew was quick to establish successful businesses in both Sydney's Eastern Suburbs and later in his career in Sydney's lower north shore. During his tenure as a pharmacist Andrew worked closely with several hospitals and rehab centres and it was here (unbeknown to anyone) that Lo-Chlor Chemicals would be born. Through his extensive work on assisting hospitals treat and maintain their hydrotherapy and rehabilitation pools Andrew was quick to discover copper sulphate and its role as the most effective form of algaecide (which is still the case today).

Still working as a pharmacist Andrew developed a low dose organo copper complex known as Lo-Chlor Pool Conditioner that was designed to kill and control algae and fungal infestations for an extended period of time.

The main benefits of such a formulation were it was low in concentration, it was not affected by the addition of chlorine compounds and was guaranteed not to stain pool surface. Andrew manufactured the algaecide from the garage of his home in Sydney's east and sold box after box at his pharmacy in Sydney.

The success that the product was met with was not something that he could ignore and in 1979 Andrew sold up his pharmacies and rented a small factory in Marrickville, Sydney where he started producing the algaecide and what would ultimately become the largest range of specialised pool and spa chemicals seen around the globe.

Today the company (now owned and run by Paul Simons, Andrew's son) boasts more than 45 employees, has more than 100 specialty chemicals in its range and is recognised as a market leader around the globe. It has manufacturing facilities in both Sydney and Perth along with partnerships in both the United States and the United Kingdom which services the European and Mediterranean markets.

Still located in Marrickville Lo-Chlor has a purpose built 3000 square metre facility where it manufactures and produces almost its entire range of specialised chemicals. 100% Australian owned and Australian made Lo-Chlor Chemicals and its staff continues Andrew's legacy and his core business values. Lo-Chlor prides itself not only on service but customer satisfaction and product quality.

The passion and commitment of both the management and sales team together with their combined experience of over 200 years in the industry will ensure our customers remain at the forefront of the Pool & Spa Chemical market. Lo-Chlor holds market leadership in Specialty Pool & Spa Chemicals throughout several global markets and is seen as an innovator and leader in this specialised field. Technical expertise and intellectual know-how are resident with the experienced and skilled management and staff.



lochlor
...because it works



THE LO-CHLOR ALGAECIDES

THE MOST EXTENSIVE RANGE OF ALGAECIDES GLOBALLY

A **HUGE** and **VARIED** range of products that are just **WHAT THE DOCTOR ORDERED** to both **CURE** pool ailments and to **MAINTAIN** them in a **HEALTHY** condition **12 MONTHS OF THE YEAR**.

When **LO-CHLOR POOL ALGAECIDE**, then called Lo-Chlor Pool Conditioner, was first developed in 1979 by Lo-Chlor Chemicals as an algae preventative for swimming pools, the difference between the product and others that were then on the market was that a single dose lasted for three months, making it what is now commonly known as a **LONG LIFE PREVENTATIVE ALGAECIDE**.

The **LO-CHLOR POOL ALGAECIDE** that you see today is still made from exactly the same concentrated formula as the first bottle sold over 30 years ago. In fact the only thing about the product that has changed in all this time is the design of the label.

Today, Lo-Chlor Chemicals have increased their range of **LONG LIFE PREVENTATIVE ALGAECIDES** to be able to offer pool owners a variety of product to suit varying seasons and conditions. So why are Lo-Chlor's **LONG LIFE PREVENTATIVE ALGAECIDES**, after over 30 years, **STILL** considered to be better products and Australia's leading **PREVENTATIVE ALGAECIDES**?

Because they

- **STILL** guarantee **ALGAE FREE POOLS FOR UP TO 3 MONTHS** with a single dose
- **STILL** contain only the **HIGHEST QUALITY** constituents and the same **UNIQUE NON-STAINING FORMULAS**
- **STILL** cause a marked drop in **POOL CHEMICAL COSTS** and bring happy customers into pool shops **FOUR TIMES A YEAR**
- **STILL** are **GREAT VALUE** and are only available at **PROFESSIONAL POOL OUTLETS**

However, in many instances, prior to being able to put a pool on a regular **ALGAE PREVENTATIVE** program, you will have to rid the pool of an **EXISTING ALGAE PROBLEM** and to this end, Lo-Chlor have, in their armoury, a vast selection of **HIGHLY CONCENTRATED CURATIVE ALGAECIDES** to rid the pool of **EVERY CONCEIVABLE FORM OF ALGAE**.

All of the **CURATIVE ALGAECIDES** in our range are designed for specific problems and conditions, and have been tried and proven over many years with **OUTSTANDING SUCCESS** in the eyes of both **POOL PROFESSIONALS** and **GRATEFUL POOL OWNERS**.

We consider it a great compliment that many other manufacturers have chosen to describe their products as being **SIMILAR** to Lo-Chlor's **LONG LIFE PREVENTATIVE** and **CURATIVE ALGAECIDES**.

However, the fact remains that over the years we have been **OFTEN IMITATED** but **NEVER DUPLICATED**.



For further information go to our website www.lochlor.com



ALGAE KNOCK-OUT

VALUABLE TREATMENT FOR THICK ALGAE INFESTATIONS



Originally developed for ALL types of algae, Lo-Chlor Algae Knock-Out is now widely known as the No.1 treatment for stubborn algae strains in pebble pools and ageing pool surfaces.

Features & Benefits

- Use in all types of pools.
- Effective against blue-green, black spot and mustard algae.
- A favourite for pebble surfaces and ageing pool surfaces.
- Especially popular with salt chlorinated pool and ionised pools.
- Quaternary ammonium base - dual action formulation.
- As well as lysing the algae cells, the increased detergent action (foaming) assists in releasing the clinging algae crusts from pool surface.
- For severe algae infestations use in conjunction with Lo-Chlor Black Spot 900 Algaecide

Remember – always test for phosphates after the addition of an Algaecide

Sizes

- 2.5L
- 5L
- 20L

Dosage

- 2.5L treats 50,000 litres pool water

A few facts from the professionals...

1. Advise pool owner that product may foam and smell for up to 10 days.
2. Reduce pH to 7.2 for best results.
3. Use with Starver® X for badly infested pools.
4. High doses of quaternary ammonium compound may combine with free chlorine, resulting in excess levels of combined chlorine. This phenomenon lasts 2 or 3 days.
5. Addition of Lo-Chlor Aqua-Boost is recommended if condition persists.
6. When added to a pool running with a salt chlorinator the ammonia occasionally reacts with the gases produced in the salt chlorinator cell causing fine bubbles to form on the surface of the pool.
7. These bubbles will dissipate as soon as the chlorinator is switched off and usually only last 5-7 days.

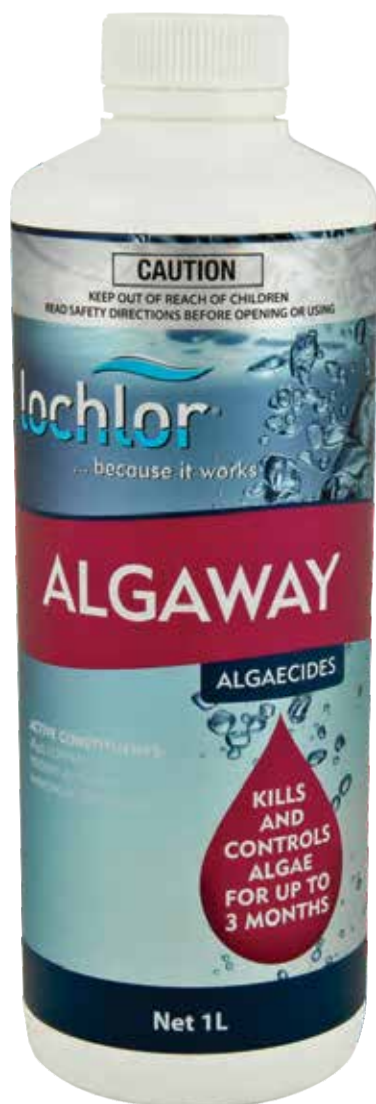
For further information go to our website www.lochlor.com





ALGAWAY ALGAEICIDE

ECONOMICAL LONG TERM ALGAEICIDE



An economical **Long Life Algaecide** that will prevent algae growth

FEATURES & BENEFITS:

- Used for eradication and prevention of blue-green, black spot and mustard algae.
- Will prevent occurrence of algae for **up to 3 months**.
- Economical and easy to use.
- Utilises a slow release formulation.
- May be used in all types of pool finishes.
- Compatible with all recognised sanitisers and other pool additives.
- Effective over a wide pH range.
- Significant clarifying effect.
- Excellent booster for salt water chlorinators.
- **Should NOT be used in pools using Ionisers or Natures 2**

SIZES:

- 1 Litre
- 20 Litre

DOSAGE:

- 1L treats 50,000 litres pool water

A few tips from the Lo-Chlor team...

1. Do not use Lo-Chlor Algaway in pools using an Ioniser or Nature 2.
2. Do not Superchlorinate for 48 hours before and after using Algaway.
3. Reduce pH to between 7.0 and 7.2 for best results.
At lower pH the waxy coating surrounding algae cells is greatly softened and allows easier penetration by chemicals.
4. Regular brushing is recommended to assist in algae removal.
5. Use in conjunction with **Lo-Chlor Starver® M** for very heavy infestations.
6. After algae have been removed always advise customers to follow up with regular dosing of a Lo-Chlor Long Life Algaecide and a phosphate removal program using one of the **Lo-Chlor Starver®** range.

For further information go to our website www.lochlor.com



BLACK SPOT 900

CONCENTRATED GRANULAR ALGAE TREATMENT



90% Tri-Chlor granular black spot treatment

Features & Benefits

- ONLY TO BE USED in pebblecrete, white plaster and tiled pools
- Contains 900g/Kg Available Chlorine present as Trichloroisocyanuric Acid
- Highly concentrated and non metallic
- Not affected by high levels of chlorine
- Low pH promotes better performance
- Kills black spot 'blue-green' algae
- Granules can be directed towards affected area
- Dissolves slowly to stay in contact with affected area longer

Always test for phosphates after the addition of an algaecide

Sizes

- 1Kg

Dosage

- 1Kg treats 50,000 litres pool water

A few facts from the professionals...

1. Adjust pH to 7.2
2. Place product directly onto the affected area
3. Wait 24 - 36 hours
4. Scrub with wire brush if necessary. Dosage rates indicated are a guide only. Please refer to the label on the bottle for further instructions.
5. We recommend that you obtain advice from your Lo-Chlor Chemicals Pool Professional before applying this treatment to your pool or spa.

For further information go to our website www.lochlor.com



BLACK SPOT ALGAE KILLER

ECONOMICAL BLACK SPOT ALGAE TREATMENT



This highly concentrated blend from Lo-Chlor is ideal for light and heavy infestations of black spot algae in all types of swimming pools.

Features & Benefits

- Use for the treatment of severe, resistant algae strains.
- Effective over a wide pH range, best results at pH between 7.0 and 7.2.
- At lower pH, the waxy coating surrounding algae cells is greatly softened, allowing easier penetration by chemical.
- Compatible with all recognised sanitisers and other pool additives.
- Do not Superchlorinate for 48 hours before and after product addition
- For severe algae infestations use in conjunction with Lo-Chlor Black Spot 900 Algaecide
- Should NOT be used in pools using Ionisers or Natures 2

Remember – Test for phosphates after the addition of a Lo-Chlor Algaecide

Sizes

- 1L
- 20L

Dosage

- 1L treats 50,000 Litres of pool water

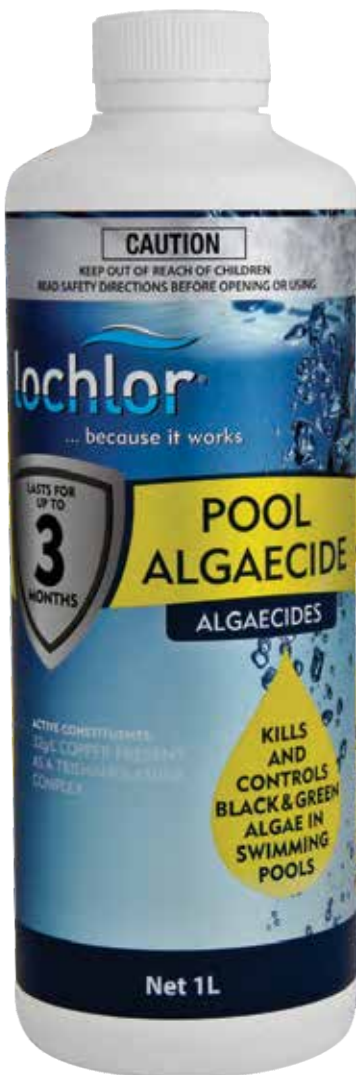
A few facts from the professionals...

1. Concentrated Black Spot Algae Killer is a combination of the organo copper complex contained in Lo-Chlor Pool Algaecide together with the proven agent, Alkyl Dimethyl Benzyl Ammonium Chloride. Both are very effective anti-algae treatments. Combined they will overcome the most resistant of algae strains.
2. As the compound suggests this blend contains ammonia.
3. When added to a pool running with a salt chlorinator the ammonia occasionally reacts with the gases produced in the salt chlorinator cell causing fine bubbles to form on the surface of the pool.
4. These bubbles will dissipate as soon as the chlorinator is switched off and usually only last 5-7 days.
5. Note: High doses of quaternary ammonium compound may combine with free chlorine, resulting in excess levels of combined chlorine. This phenomenon lasts 2 or 3 days.
6. Addition of Lo-Chlor Aqua-Boost is recommended if condition persists.

For further information go to our website www.lochlor.com



POOL ALGAECIDE LASTS FOR UP TO 3 MONTHS



Lo-Chlor Pool Algaecide is still the same formulation developed in the late 1970's originally known as Lo-Chlor Pool Conditioner. With its proven success over time Lo-Chlor Pool Algaecide remains pivotal in this range of specialised pool and spa treatments and remains the **No.1 algaecide in all four corners of the globe.**

FEATURES & BENEFITS

- The unique complex proprietary formulation exclusive to Lo-Chlor Chemicals (organo copper complex) is completely **safe to use on ALL pool surfaces**
- Our special **NON-STAINING** formula out performs all other algaecides
- **Lasts for up to 90 Days**
- Great maintenance product for **ALL SEASONS**
- Excellent **booster** for salt water chlorinators and mineral systems
- Great for opening pools in the summer
- Can be used on ALL pool surfaces
- Compatible with all recognised (APVMA approved) sanitisers
- **Do NOT use with Ionised Pool Systems**

DOSAGE:

500mls treats up to 60,000 litres pool water

SIZES:

- 500mls
- 1 Litre
- 5 Litres
- 20 Litres
- 200 Litres

What prevents the copper in Lo-Chlor Pool Algaecide from dropping out of solution and staining the pool surface?

Lo-Chlor Pool Algaecide is a specially formulated product containing a unique organo copper complex. This simply means that the copper ion has been bonded (combined) with a proprietary additive to stop the copper from coming out of suspension. The added bonus is the complex molecule will last longer in the water providing up to 90 days protection.

For further information go to our website www.lochlor.com

MIRACLEAR POOL ALGAECIDE

METAL FREE, NON FOAMING ALGAECIDE



This highly concentrated formulation from Lo-Chlor Chemicals is a uniquely formulated metal free, heavy duty algaecide with a built in clarifier.

Features & Benefits

- Regarded as the most effective algaecide to fight a green pool.
- 100% Australian only formulation
- Known as an Oxiraine
- Long chain polymer gives longer lasting algaecide properties
- Inexpensive and very effective
- Compatible with ALL sanitisers, surfaces and chemicals
- Will not affect water balance or bathers
- Ideal for ornamental ponds and fountains.

Always test for phosphates after the addition of a Lo-Chlor Algaecide

Sizes

- 1L
- 20L

Dosage

- Initial Dosage: Use 150ml product per 10,000 Litres.
- Maintenance Dosage: 80ml product per 10,000 litres every seven days.
- Heavy Algae Growth/Winter Dose: Use 300ml per 10,000 Litres.

A few facts from the professionals...

1. Lo-Chlor Miraclear Algaecide does not contain any trace metals. It is therefore ideal for Ionised pools and Nature 2 pools and spas.
2. It is non foaming and non staining so is an ideal algaecide for fountains and ornamental ponds.
3. Unlike other non copper algaecides it does not contain Alkyl Dimethyl Benzyl Ammonium Chloride.
4. It is therefore ideal for salt pools and pools with high combined chlorine levels.

For further information go to our website www.lochlor.com



SUMMERCARE POOL ALGAECIDE

DESIGNED FOR HOT SUMMER ALGAE TREATMENT



FEATURES & BENEFITS

- Treatment and prevention of algae problems during hot summer months.
- Effective over a wide pH range, best results between 7.0 and 7.2.
- The lower pH allows easier cellular penetration.
- Used to eradicate and prevent of green, black spot and mustard algae.
- Will prevent occurrence of algae for up to 3 months.
- Slow release organo copper complex exclusive to Lo-Chlor Algaecides
- May be used in all types of pool finishes.
- Compatible with all recognised sanitisers and other pool additives.
- Significant clarifying effect.
- Excellent booster for salt water chlorinators and mineral systems
- Should NOT be used in pools using Ionisers or Natures 2

Remember – always test for phosphates after the addition of an Algaecide

SIZES

- 1 Litre

DOSAGE

- 1L treats 50,000 litres pool water

A few tips from the Lo-Chlor team...

1. Good preparation always makes good sense.
2. Lower pH (approx 7.0 – 7.2) before use.
3. Vacuum and backwash filter. Regular brushing recommended.
4. Use in conjunction with ANY of the Starver® Phosphate Removers.

For further information go to our website www.lochlor.com

TROPICAL POOL ALGAEICIDE

THE STRONGEST FORMULATION FOR ERADICATING ALGAE



Originally developed for the harsh **tropical climates** of far north QLD, **Lo-Chlor Tropical Pool Algaecide** fast became the benchmark as **the most effective and most potent** product for killing **ALL types of algae**.

Features & Benefits

- Use for the treatment of severe, resistant algae strains.
- Effective over a wide pH range, best results at pH between 7.0 and 7.2.
- At lower pH, the waxy coating surrounding algae cells is greatly softened, allowing easier penetration by chemical.
- Compatible with all recognised sanitisers and other pool additives.
- Do not Superchlorinate for 48 hours before and after product addition
- For severe algae infestations use in conjunction with Lo-Chlor Black Spot 900 Algaecide
- Should NOT be used in pools using Ionisers or Natures 2

Always test for phosphates after the addition of a Lo-Chlor Algaecide

Sizes

- 2.5L
- 5L
- 20L

Dosage

- 2.5L treats 50,000 litres pool water

A few facts from the professionals...

1. **Lo-Chlor Tropical Algaecide** is a combination of the organo copper complex contained in Lo-Chlor Pool Algaecide together with the proven agent, Alkyl Dimethyl Benzyl Ammonium Chloride.

Both are very effective anti-algae treatments.

Combined they will overcome the most resistant of algae strains.

2. As the compound suggests this blend contains ammonia.
3. When added to a pool running with a salt chlorinator the ammonia occasionally reacts with the gases produced in the salt chlorinator cell causing fine bubbles to form on the surface of the pool.
4. These bubbles will dissipate as soon as the chlorinator is switched off and usually only last 5-7 days.
5. Note: High doses of quaternary ammonium compound may combine with free chlorine, resulting in excess levels of combined chlorine. This phenomenon lasts 2 or 3 days.
6. Addition of **Lo-Chlor Aqua-Boost** is recommended if condition persists.

For further information go to our website www.lochlor.com

TROPICLEAR POOL ALGAECIDE

THE STRONGEST FORMULATION FOR ERADICATING ALGAE



Originally developed for the harsh **tropical climates** of far north QLD, **Lo-Chlor Tropiclear Pool Algaecide** fast became the benchmark as **the most effective and most potent** product for killing **ALL types of algae**.

Features & Benefits

- Use for the treatment of severe, resistant algae strains.
- Effective over a wide pH range, best results at pH between 7.0 and 7.2.
- At lower pH, the waxy coating surrounding algae cells is greatly softened, allowing easier penetration by chemical.
- Compatible with all recognised sanitisers and other pool additives.
- Do not Superchlorinate for 48 hours before and after product addition
- For severe algae infestations use in conjunction with Lo-Chlor Black Spot 900 Algaecide
- Should NOT be used in pools using Ionisers or Natures 2

Always test for phosphates after the addition of a Lo-Chlor Algaecide

Sizes

- 2.5L
- 5L
- 20L

Dosage

- 2.5L treats 50,000 litres pool water

A few facts from the professionals...

1. Lo-Chlor Tropiclear Algaecide is a combination of the organo copper complex contained in Lo-Chlor Pool Algaecide together with the proven agent, Alkyl Dimethyl Benzyl Ammonium Chloride.
Both are very effective anti-algae treatments.
Combined they will overcome the most resistant of algae strains.
2. As the compound suggests this blend contains ammonia.
3. When added to a pool running with a salt chlorinator the ammonia occasionally reacts with the gases produced in the salt chlorinator cell causing fine bubbles to form on the surface of the pool.
4. These bubbles will dissipate as soon as the chlorinator is switched off and usually only last 5-7 days.
5. Note: High doses of quaternary ammonium compound may combine with free chlorine, resulting in excess levels of combined chlorine.
This phenomenon lasts 2 or 3 days.
6. Addition of Lo-Chlor Aqua-Boost is recommended if condition persists.

For further information go to our website www.lochlor.com

WINTERISER ALGAECIDE

CONTROL ALGAE IN THE COLD WINTER MONTHS



Developed some 10 years after Lo-Chlor Pool Algaecide, Lo-Chlor Winteriser Algaecide was developed to specifically kill and control algal blooms during winter. Utilising the original organo copper complex, Lo-Chlor Winteriser Algaecide ensures your customer can maintain an algae free (and stain free environment) over the cold winter months.

FEATURES & BENEFITS

- Enhances chlorine production and chlorine efficiency
- Minimises maintenance during winter
- Unique organo copper complex, completely safe to use with all types of pool surfaces
- Our special non-staining formula out performs all other winter algaecides
- Lasts for up to 90 days
- Great maintenance protection during winter
- Kills all types of algae (blue-green, mustard, black, pink)
- Guaranteed non-staining formula
- May be used in all types of pool finishes
- Compatible with all recognised sanitisers and other pool additives.
- Should NOT be used in pools using Ionisers or Natures 2

SIZES

- 500mls
- 1 Litre
- 5 Litre
- 20 Litre
- 200 Litre

DOSAGE

- 500mls treats 60,000 litres pool water

Did you know?

By adding a dose of Lo-Chlor Winteriser Algaecide

- a) You need only chlorinate your pool once every 10 – 14 days?
- b) You need only run your filter for a minimum of 2 hours a day?
- c) Your salt chlorinator runs more efficiently?
- d) You are cutting electricity costs during winter saving your customer money and helping the environment by lowering carbon emissions

For further information go to our website www.lochlor.com



AQUASPA™ by LO-CHLOR

CHLORINE FREE SYSTEM FOR SPAS & HOT TUBS

AQUASPA by LO-CHLOR is a non chlorine range of spa products designed for both indoor and outdoor spas and hot tubs.

When Lo-Chlor first developed Aquaspa, our aim was to provide families with a safe and clean spa environment. An environment where you can trust us to deliver a healthy and gentle cleaning system that has only one thing in mind, the well-being of Australian families.

At its core, our innovation is a 3 product cleaning system designed for all spas, swim systems and hot tubs. The AquaSpa products are specially formulated to be fit for use by adult and child users alike who are sensitive to the odours and other side-effects associated with the traditionally harsh chlorine and bromine based cleaning systems. Some of the key features of our products are

- it creates the feeling that you are in a natural spring
- is gentle on your skin and hair. The creation of freshness provides a sense of total well-being.
- it eliminates chemical fumes that are otherwise ingested with the use of non-natural, chlorine and bromine based cleaning systems
- it allows easy and economical maintenance of your spa with once a week dosing for normal conditions
- it can be used in all types of spa finishes
- is compatible with ozone generators and ionisers
- it has no detrimental effect on heaters thus giving longer heater life
- is compatible with all recognised spa equipment, such as heaters and pumps, allowing manufactures warranties to remain in force
- it allows your spa to be balanced according to builders or manufacturers' recommendations.
- is non-foaming meaning that it will not block filters, not leave a mess on the spa walls, not cause the heater to corrode and will not damage clothing, towels or hair.

We have put together a comprehensive **Start-Up Kit** (pictured right) which contains the entire range of **Aquaspa Products** along with a test kit, user guide, spa pad for cleaning and a measuring vial. The range of products are pictured here below.



Free of chlorine and bromine, it doesn't smell nor sting the eyes, and best of all, you won't breathe in chemical fumes as you may with other sanitisers. What's more, weekly doses make it both easy and economical to administer. As you can see, great, healthy advances are being made in spa treatments. As Lo-Chlor and other companies will testify, a spa is meant to be a gentle, relaxing therapeutic experience so why use a product that produces anything less.

For further information go to our website www.aquaspa.com.au



AQUASPA™ SPA SANITISER

CHLORINE FREE SANITISER FOR SPAS & HOT TUBS



Totally replaces the need for chlorine or bromine in spas and hot tubs

Features & Benefits

- Non chlorine sanitiser approved for use in residential spas and hot tubs.
- It has been specially formulated to prevent the growth of various pathogens that can cause disease in spas.
- Because it contains neither chlorine nor bromine, it may be used without any of the inherent side effects, such as smell, sticky feeling and sore eyes, associated with these products.
- It is especially ideal for allergy sufferers, including those who endure asthma or skin problems. It is like being in clean fresh water.
- It is gentle on skin, hair and clothing and the freshness can provide a sense of total well-being
- You will not be breathing in chemical fumes as may be the case when using some other sanitisers
- Normal dosing is once every week, making a spa using the LO-CHLOR AQUASPA™ PROGRAM both easy and economical to maintain.

Additional benefits

- May be used in all types of spa finishes
- Is compatible with ozone generators and ionisers
- Has no effect on heaters thus giving longer heater life
- Is compatible with all recognised spa equipment, such as heaters and pumps, which are associated with manufacturers' warranties
- Allows a spa to be balanced according to builders or manufacturers recommendations.
- Is non-foaming meaning that it will not block filters, not leave a mess on the spa walls, not cause the heater to corrode and not damage clothing, towels or hair etc

Dosage

- 60mls per 1000L spa water
- Repeat every week or as necessary

CHLOË McCARDEL (pictured above)

Chloë McCardel, 32, holds the World Record for the longest unassisted ocean swim at 124.4km in 41.5 hours, McCardel also holds the Australian Record for 29 x English Channel crossings. This includes one non-stop triple crossing, two non-stop double crossings, and the World Record for eight crossings in one season. McCardel is the brand Ambassador for Lo-Chlor Chemicals and its subsidiary brands. Proudly Australian, Lo-Chlor continues to support Chloë in her bid to become the Queen of the Channel as she strives toward the world record of 42 crossings of the English Channel.

For further information go to our website www.lochlor.com



AQUASPA™ SPA SHOCK & AQUASPA™ SPA KLEER



The Two COMPANION PRODUCTS to AQUASPA® SPA SANITISER

AQUASPA® SPA SHOCK

- Is a powerful non-chlorine shock treatment and oxidiser. It is used to remove organic micro particles that cause cloudy or green water as well as body fat residues.

Dosage

- 20g per 1000L spa water
- Repeat every week or as necessary

AQUASPA® SPA KLEER

- Is a revolutionary clarifying agent that will maintain a superb ongoing sparkle and sheen in your spa water
- Will remove and prevent biofilm build up from your spa surface, pipework and filter cartridges

Dosage

- 60mls per 1000L spa water
- Repeat every week or as necessary

A few insights from the spa professionals...

- Each week add 60ml of AQUASPA™ SPA SANITISER per 1000 litres.
- Each week add 60ml of AQUASPA™ SPA KLEER per 1000 litres
- Each week add 20 grams of AQUASPA™ SPA SHOCK per 1000 litres

If you experience **HEAVIER THAN NORMAL** bather loads an **EXTRA** dose of **AQUASPA™ SPA SHOCK** may be required after use

Do NOT overdose chemicals (MORE is NOT BETTER)

When first changing to this system (or if the spa has been shock cleaned) allow a week or two for settling before optimum results will be seen.

CHLOË McCARDEL (pictured above)

Chloë McCardel, 32, holds the World Record for the longest unassisted ocean swim at 124.4km in 41.5 hours, McCardel also holds the Australian Record for 29 x English Channel crossings. This includes one non-stop triple crossing, two non-stop double crossings, and the World Record for eight crossings in one season. McCardel is the brand Ambassador for Lo-Chlor Chemicals and its subsidiary brands. Proudly Australian, Lo-Chlor continues to support Chloë in her bid to become the Queen of the Channel as she strives toward the world record of 42 crossings of the English Channel.

For further information go to our website www.lochlor.com



AQUASPA™ BALANCERS & ADJUSTERS



AQUASPA® ALKALINITY ENHANCER

- Use to increase the pH and Total Alkalinity in spas & hot tubs
- Always adjust the Alkalinity before the pH as this will help control the pH bounce when using **AQUASPA®**
- The ideal Total Alkalinity in an **AQUASPA®** spa is between 80-140ppm

Dosage

- Refer to table on the label

Available Sizes

- 500g

AQUASPA® pH REDUCER

- Use to decrease the pH and Total Alkalinity in spas & hot tubs
- Always adjust the Alkalinity before the pH as this will help control the pH bounce when using **AQUASPA®**
- The ideal pH in an **AQUASPA®** spa is between 7.2-7.6

Dosage

- Refer to table on the label

Available Sizes

- 500g

AQUASPA® CALCIUM ENHANCER

- Use to increase the Calcium Hardness level in spas & hot tubs
- Calcium Hardness is an important aspect of water balance and water chemistry. It allows the pH and Alkalinity to stabilise and also provides a more comfortable bathing experience.
- The ideal Calcium Hardness level in an **AQUASPA®** spa is 80-120ppm

Dosage

- Refer to table on the label

Sizes

- 500g

For further information go to our website www.lochlor.com



AQUASPA[™] ANTI-FOAM & AQUASPA[™] CHLORINE REMOVER



AQUASPA ANTI-FOAM is a **HIGHLY CONCENTRATED Defoamer** for spas and hot tubs

Features & Benefits

- This effective liquid suppresses foaming and sudsing in spas, hot tubs, therapeutic pools, fountains and pools.
- Highly concentrated formulation (2 capfuls for an average spa or hot tube)
- Totally safe and non toxic
- Compatible with all spa sanitisers and all other chemicals
- Economical and easy to use

Sizes

- 500mls
- 5L

Dosage

- 2-3 capfuls for an average size spa

AQUASPA CHLORINE REMOVER

Lowers CHLORINE AND BROMINE LEVELS In Pools And Spas

Benefits

- Reduces chlorine and bromine levels in spas and hot tubs
- Compatible with all other spa chemicals
- Results in hours
- Highly concentrated
- Does not reduce chloramines or combined chlorine levels

Important Notes

- This product is extremely potent. Don't use more than indicated.

Sizes

- 500mls

Dosage

- TBA

For further information go to our website www.lochlor.com



AQUASPA™ INSTANT FILTER KLENZ

NON SOAK FILTER CLEANER FOR INSTANT RESULTS



Proprietary blend which removes grim, organic build up and CALCIUM SCALE

Benefits

- Specially formulated for the removal oils, minerals and debris from your spa and hot tub filter.
- Supplied in a handy trigger spray its Non-Soak enables the filter to be cleaned quicker resulting in less down time of your spa and hot tub.

Sizes

- 500mls

Dosage rates

- Read directions for use carefully before use

Hot tips for pool professionals

- D.E. and Cartridge Filters: Best results will be obtained when the soiled elements are hosed before cleaning to remove as much debris as possible. Also hose well before re-assembly.
- Never add this product to pool water.
- Lo-Chlor recommends that filters be cleaned regularly.
- Make filter cleaning part of your regular winter shutdown maintenance program.
- Your customers will thank you.

For further information go to our website www.lochlor.com



AQUASPATM PIPE KLENZ

REMOVES GRIME, BUILD UP AND BIOFILM



Features & Benefits:

- Spa baths and hot tubs harbour undesirable body fats, oils and soaps which result in noxious odours and discoloured water. This problem is most noticeable in those baths which retain water in the pipework, even when the bath has been emptied.
- Lo-Chlor Concentrated Spa and Hot Tub Cleaner should be used regularly to eliminate these problems.
- The product is specially formulated with enhanced cleaning activity.

Extra tips & benefits

- Our new extra strength formulation removes grime, organic build up, oils, dead skin, waste and calcium scale. If used correctly, Concentrated Spa and Hot Tub Cleaner will assist in the removal of Biofilm from the system and its associated pipe work. Dosing should be carried out on a regular basis, ideally as a minimum on a twelve week basis
- Because this product contains acidic compounds, it is important that the system be fully flushed before using again.
- Regular use in commercial spa baths is recommended.

Sizes

- 500mls
- 5L

Dosage – Spas & Hot Tubs

- 250mls per 1000 litres water

For further information go to our website www.lochlor.com





AQUAFRESH™ SANITISER

CHLORINE FREE SANITISER FOR SWIMMING POOLS



AQUAFRESH is a revolutionary 3 step CHLORINE FREE pool care system.

At last, pool owners have an alternative to the traditional chlorine pool that is odour free, gentle on bathers and equipment and provides outstanding water clarity.

AQUAFRESH™ SANITISER

- **THE ESSENTIAL and MOST IMPORTANT PRODUCT** in the range
- **NON CHLORINE** sanitiser specially formulated for swimming pools
- **TOTALLY REPLACES** the need for **CHLORINE** or **OTHER SANITISERS**

Features & Benefits

- **AQUAFRESH™ SANITISER** is a non chlorine sanitiser that is approved for use in residential pools
- It has been specially formulated to prevent the growth of various pathogens that can cause disease in pools.
- Because it contains neither chlorine nor bromine, it may be used without any of the inherent side effects, such as smell, sticky feeling and sore eyes, associated with these products.
- It is especially ideal for allergy sufferers, including those who endure asthma or skin problems. It is like being in clean fresh water.
- It is gentle on skin, hair and clothing and the freshness can provide a sense of total well-being
- You will not be breathing in chemical fumes as may be the case when using some other sanitisers
- Normal dosing is once every week, making a pool using the **AQUAFRESH™ SYSTEM** both easy and economical to maintain.

Additional benefits

- **AQUAFRESH™ SANITISER** may be used in all types of pool finishes
- It is compatible with ozone generators and ionisers
- It has no effect on heaters thus giving longer heater life
- It is compatible with all recognised pool equipment, such as heaters and pumps, which are associated with manufacturers' warranties
- It allows a pool to be balanced according to builders' recommendations.
- It is non-foaming meaning that it will not block filters, not leave a mess on the pool walls, not cause the heater to corrode and not damage clothing, towels or hair etc

Dosage:

- 60mls per 10,000 Litres pool water
- Repeat every week or as necessary

Sizes:

1 Litre, 2.5 Litres and 5 Litres

CHLOË McCARDEL (pictured above)

Chloë McCardel, 32, holds the World Record for the longest unassisted ocean swim at 124.4km in 41.5 hours, McCardel also holds the Australian Record for 29 x English Channel crossings. This includes one non-stop triple crossing, two non-stop double crossings, and the World Record for eight crossings in one season. McCardel is the brand Ambassador for Lo-Chlor Chemicals and its subsidiary brands. Proudly Australian, Lo-Chlor continues to support Chloë in her bid to become the Queen of the Channel as she strives toward the world record of 42 crossings of the English Channel.

For further information go to our website www.lochlor.com



AQUAFRESH™ PERFORMANCE

CHLORINE FREE SHOCK TREATMENT FOR AQUAFRESH POOLS



NON CHLORINE SHOCK TREATMENT for pools

We all know that pools harbour all types of organic material. Bacteria, viruses, algae as well as other organic deposits from leaves, dust, dirt, body oils, fats, urine and other exudates all place a heavy load on sanitisers.

AQUAFRESH™ PERFORMANCE has the ability to oxidise protein and other organic material.

Benefits

- Oxidises organic contaminants.
- Used regularly – potentiates the effect of AQUAFRESH™ SANITISER.
- Contains clarifying agent for sparkling clear water

Additional Benefits

- AQUAFRESH™ PERFORMANCE is composed of Sodium Percarbonate
- Sodium Percarbonate has an active oxygen content of 13.5% minimum which is much higher than monopersulphate or perborate compounds.
- These compounds have oxygen contents of 4.5% and 10%.
- It is for this reason that MUCH LESS of AQUAFRESH™ PERFORMANCE is required to treat a pool.
- When dissolved in water Sodium Percarbonate converts to Sodium Carbonate plus Hydrogen Peroxide - the oxidising component.
- Hydrogen Peroxide is considered to be an effective bacteriostat

Important Notes

- AQUAFRESH™ PERFORMANCE DOES NOT REPLACE a sanitiser.
- Sodium Carbonate does cause an increase in pH however because of the small amount of product used the effect on pH is minimal
- DO NOT EXCEED the recommended dose rate

Dosage:

- 50gm per 10,000 Litres pool water every 2 weeks
- If bathing load is heavy, increase to 100gm per 10,000 litres every 2 weeks

Sizes:

1 kg & 5 kg

CHLOË McCARDEL (pictured above)

Chloë McCardel, 32, holds the World Record for the longest unassisted ocean swim at 124.4km in 41.5 hours, McCardel also holds the Australian Record for 29 x English Channel crossings. This includes one non-stop triple crossing, two non-stop double crossings, and the World Record for eight crossings in one season. McCardel is the brand Ambassador for Lo-Chlor Chemicals and its subsidiary brands. Proudly Australian, Lo-Chlor continues to support Chloë in her bid to become the Queen of the Channel as she strives toward the world record of 42 crossings of the English Channel.

For further information go to our website www.lochlor.com





AQUAFRESH™ ENHANCE

SUPPORTS THE PERFORMANCE OF AQUAFRESH SANITISER



Used in **CONJUNCTION** with **AQUAFRESH™ SANITISER**

- **WEEKLY** application for **ALGAE CONTROL** and **ENHANCED WATER CLARITY**
- Works in **ALL** filtration media

Features & Benefits

- **AQUAFRESH™ ENHANCE** is a patented formula specially designed to complement **AQUAFRESH™ SANITISER**
- It has been specially formulated to help prevent the growth of various algae in swimming pools
- It **ASSISTS** filtration, providing exceptional **WATER CLARITY**
- Normal dosing is once every week, making a pool using the **AQUAFRESH™ SYSTEM** both easy and economical to maintain.

Additional benefits

- **AQUAFRESH™ ENHANCE** may be used in all types of pool finishes
- It is compatible with ozone generators and ionisers
- It has no effect on heaters thus giving longer heater life
- It is compatible with all recognised pool equipment, such as heaters and pumps, which are associated with manufacturers' warranties
- It allows a pool to be balanced according to builders' recommendations.

Dosage:

- 60 mls per 10,000 Litres pool water **WEEKLY**

Sizes:

- 1 Litre
- 2.5 Litres

CHLOË McCARDEL (pictured above)

Chloë McCardel, 32, holds the World Record for the longest unassisted ocean swim at 124.4km in 41.5 hours, McCardel also holds the Australian Record for 29 x English Channel crossings. This includes one non-stop triple crossing, two non-stop double crossings, and the World Record for eight crossings in one season. McCardel is the brand Ambassador for Lo-Chlor Chemicals and its subsidiary brands. Proudly Australian, Lo-Chlor continues to support Chloë in her bid to become the Queen of the Channel as she strives toward the world record of 42 crossings of the English Channel.

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The history behind STARVER®

In 1990 Dudley Mills (along with his team of research engineers) decided he wanted to seek alternative means of stopping algae growing in backyard swimming pools. It was clear that algae, like all organisms, needed nutrients to grow, could not grow in the absence of nutrients and would grow only slowly at best in nutrient poor environments. It surprised Mr Mills and his research team that, at that time, there was no commercially available product for the removal of algae nutrients from swimming pool water.

To test the idea that nutrient removal could control algal blooms, algal blooms were allowed to occur naturally in the swimming pool by ceasing preventative treatment and, when the bloom had reached the greenest state, the algae were vacuumed and filtered from the water. The intent was to use the living algae to absorb the nutrients from the water and by removing the algae from the water also remove nutrients from the water. It was found that, after each algae removal treatment, the subsequent algal blooms were slower to form and were less intense and more easily controlled by preventative treatments such as chlorine. Removal of chlorine bleached (dead) algae did not have a noticeable effect on subsequent algal blooms. Nutrient removal using live algae demonstrated that subsequent algal blooms were considerably less intense. However, the process of algae removal was troublesome and would not be able to completely eliminate algae from the pool.

In 1993 it was decided to find a more effective and more useful method of removing algal nutrients from swimming pool water. Carbon dioxide could not be targeted as it is required in the form of bicarbonate in swimming pool water as part of the water pH buffer and would be quickly re-supplied in excess of algal requirements from the air. Similarly, nitrogenous substances could not be targeted because they are added in large amount to swimming pool water and nitrogen is also available from air dissolved in pool water to some algae. Phosphorous was targeted for removal as it is an essential nutrient required in only relatively small quantities by algae and the relatively small quantities in swimming pools would make its removal manageable.

It was thought that removing phosphate, thereby reducing its concentration low enough, would cause algae to starve and die or grow only slowly as per Justus von Liebig's (1803-1873) "Law of the Minimum" which states that the growth of plants and animals is controlled by the availability of the scarcest resource. The material used to remove phosphate needed to be a mineral so that it would not be affected by nor affect chlorine in pool water. It needed to be safe to handle. It needed to be non-staining which eliminated iron compounds. It needed to be effective at very low concentrations of phosphate which eliminated aluminium compounds. The lanthanide compounds appeared most suitable considering that the mineral monazite is highly insoluble in neutral pH water.

A provisional patent covering phosphate removal in swimming pool using lanthanides was applied for on 1993/February/24. The Water Resources division of CSIRO showed interest in the materials and processes by providing, at no charge, laboratory facilities and scientific oversight, their interest being engineering solutions to removing polluting phosphate from natural waters.

Experiments showed that adding soluble lanthanum compounds to pool water too often resulted in very difficult to remove fine cloudy suspensions of highly insoluble lanthanum carbonate and phosphate and that even under good conditions, removal of lanthanum precipitates from the pool water was slow and tedious. Further experiments demonstrated that correctly formulated lanthanum mineral particles could be retained in the swimming pool filter and remove the majority of the phosphate from water pumped through the filter while not clouding the water. Laboratory experiments and field trials made it clear that the concentration of phosphate could be practicably lowered to levels which would dramatically reduce the growth of algae and eliminate them when combined with normal chlorine treatment.

Commercialization of the invention, by then called Starver® commenced with the signing by Lo-Chlor Chemicals Pty Ltd of a license agreement on 4th November, 1994. Commenced production started shortly thereafter. Since November 1994 Lo-Chlor Chemicals has lead the way in the production, distribution and development of phosphate removal, phosphate testing and phosphate treatment.

Starver® Pool Maintenance, Starver® M and Starver® X are now sold in more than 50 countries worldwide and the Starver® brand is widely known as the most successful and most effective group of specialty pool and spa chemical to date.

For further information go to our website www.lochlor.com



STARVER POOL MAINTENANCE

THE ORIGINAL PATENTED PHOSPHATE REMOVER



Designed to be used as a maintenance and preventative solution this unique formulation is highly concentrated and is safe to use with fish, mammals and in aquariums.

Features & Benefits:

- Removes phosphates (algae nutrients)
- Without phosphates, algae cannot grow
- New formulation
- Dramatically clarifies water giving instant satisfaction
- Does not cloud water (unlike other phosphate removers)
- Minimal filter pressure increase (see important notes below)
- Enhances chlorine production
- Enhances the performance of ALL other pool chemical treatments
- Compatible with all sanitisers (including Nature 2 and Ionisers)

Important Notes:

- Shake container well before use
- Check filter pressure before you add Lo-Chlor Starver® Pool Maintenance
- If pressure is high, clean cartridge prior to adding Lo-Chlor Starver® Pool Maintenance
- Add directly to skimmer with filter running normally
- Can be used in freshwater/saltwater aquariums, lakes and ponds
- Safe with fish and mammals
- Non-toxic and biodegradable

Sizes

- 1L
- 2.5L
- 5L
- 20L

For further information go to our website www.lochlor.com



STARVER X FOR EXTREME LEVELS OF PHOSPHATES



The premium strength phosphate remover on the market to date. **Starver X** is designed for high levels of phosphate and should be used when the phosphate level is **2ppm or above**.

Once the level has been reduced to a manageable one regular doses of its companion **MAINTENANCE** product **STARVER®M** should be used to preserve a healthy level as close to zero as possible.

Features & Benefits

- High strength **CURATIVE** Phosphate Remover
- 1 Litre removes up to **6 parts per million (ppm)** of phosphates in a **50,000** Litre pool
- Natural composition of unique polymers and rare earth compounds
- Enhances water clarity within 24 hours
- Built in clarifier gives superior look to water quality
- Increases efficiency of all sanitisers
- Increases the efficiency of saltwater chlorinators
- No need to vacuum (does not settle out in pool)
- No effect on filter pressure
- Compatible with all pool treatments and equipment
Compatible with all registered sanitisers and does not affect probes on automatic liquid feeders or other dosing units.

Sizes:

1 litre
20 litre

Dosage:

1 litre will reduce phosphate levels by up to 6ppm in a 50,000 litre pool

There are many sources of phosphate and these are being continually introduced to the pool water. It makes sense, therefore, to dose regularly and have an ongoing phosphate maintenance program.

For further information go to our website www.lochlor.com



STARVER M

DESIGNED TO MAINTAIN LOW PHOSPHATE LEVELS



STARVER[®]M is an extremely high strength **PREVENTATIVE** phosphate remover and should be used ongoing as a **MAINTENANCE** product to keep phosphate levels as close to zero as possible. It should be used weekly if the level is **below 2ppm**.

STARVER[®]X, its companion **CURATIVE** product is designed for high levels of phosphate and should be used when the phosphate level is **2ppm or above**.

Features & Benefits

- Perfect **MAINTENANCE** product to preserve low level of phosphates
- A single dose of 250mls will remove up to 2 ppm (parts per million) of phosphates from swimming pool water
- Allows other chemicals to work more effectively
- Depletes the water of the main food for algae
- Compatible with all pool treatments and equipment
- Simple, easy application directly through the skimmer
- No sediment so no need to shake before use
- Natural composition of unique polymers and rare earth compounds
- Built in clarifier gives superior look to water quality
- Increases efficiency of all sanitisers
- Increases the efficiency of saltwater chlorinators
- No need to vacuum (does not settle out in pool)
- No effect on filter pressure
- Compatible with all registered sanitisers and does not affect probes on automatic liquid feeders or other dosing units.

Sizes:

- 1 litre
- 2.5 litre
- 5 litre
- 20 litre

Dosage: A weekly 250ml dose is recommended to keep phosphate reading close to zero level.

There are many sources of phosphate and these are being continually introduced to the pool water. It makes sense, therefore, to dose regularly and have an ongoing phosphate maintenance program.

For further information go to our website www.lochlor.com



PHOSPHATE TESTING

THE STARVER TEST KIT

The kit comprises of liquid reagents to ACCURATELY TEST FOR PHOSPHATE LEVELS in swimming pools.

It contains 2 x REAGENT B and 1 x REAGENT A.
The kit is a MUST for every pool professional.



Kit contains:

- 1 x 25mls Reagent A
- 2 x 25mls Reagent B
- 1 x 12mls vial

Instructions on how to test phosphates accurately

Instructions:

- Fill 12mls tube with approximately 10mls pool or spa water
- Add 5 drops Reagent A
- Add 5 drops Reagent B
- Shake well
- Compare colour against chart provided

Important Notes

- Ensure all living algae and algae spores are killed before you test for phosphates.
- If algae are present the test result will read ZERO as the algae have consumed the phosphates.
- Before testing kill algae by either Superchlorinating or using a Lo-Chlor Algicide.
- Store kits in cool dry conditions
- Phosphate test kits have a 6 month shelf life

For further information go to our website www.lochlor.com

Manufactured by: MI International Pty Ltd (t/as Lo-Chlor Chemicals)

1/154- 164 Renwick Street, Marrickville NSW 2204

Tel: 1-800 64 POOL (7665) | Fax: +612 9573 0566 | E: info@lochlor.com.au | W: www.lochlor.com



CLARIFIERS & FLOCCULANTS

What is Cloudy Water?

Water containing fine particles that reflect back the light. The particles are held in suspension by static electric charges which repel one another. The particles are from 0.5 to 5.0 Micrometers in diameter and are too small to be filtered out by a sand or cartridge filter. A Diatomaceous Earth (D.E.) filter will filter fine enough to remove these particles so a D.E. filtered pool rarely has a cloudy water problem. Particles that cause cloudy water can be from any number of sources such as Algae, Suntan Lotion, Body Fats, Skin Proteins, Sand, Pollen, Earth, Granular Calcium Hypochlorite and Calcium Carbonate.

What Causes Cloudy Water?

- High pH: Which causes Calcium Carbonate to come out of solution. The pool takes on a milky appearance.
- Algae. The start of an Algae infestation. In the early stages the pool may just seem hazy but after a day or two the familiar green colour develops
- Heavy Bathing Load. Which in reality is a mixture of suntan lotion, body fats and skin proteins. All these products react with Chlorine to form insoluble compounds which have to be filtered out. Swimmers add significantly to the cloudiness of pool water. We have all seen how a pool that is crystal clear in the morning will be quite hazy at the end of a day's swimming.
- Insufficient filtration time. Pool filtration systems are sized so as to give a complete pool water turn over in eight hours. It follows that all pools need eight hours filtration every day. It is also possible that filtration equipment too small for the pool has been fitted.
- When the backyard washes into the pool after a thunderstorm. A regular occurrence for some pool owners and a nightmare for others. When rain water washes over garden beds before emptying into the pool it collects a variety of chemicals which effect the pool including detergents, nitrates, phosphates, metals that can stain, Algae spores, as well as assorted cigarette ends, plastic bags and doggie do doos.

Clarifiers versus Flocculants

- A Clarifier is a chemical that coagulates fine particles together which then are filtered out.
- A Flocculant is a chemical that coagulates fine particles together, which when the pump is turned off, fall to the floor of the pool under gravity and are then vacuumed to filter or to waste. Before chemical treatment it should be noted that dose rates for Clarifiers and Flocculants are important. All Clarifiers and Flocculants work in 24 hours or less
- Overdosing of chemicals will not improve the clarity faster nor will twice the dose clear twice as much cloudiness. In fact overdosing can make matters worse, especially with products containing Alum.
- Clarifiers and Flocculants work by neutralising the positive electric charge on the particles which then clump together and are either filtered out or fall to the floor. Too much Clarifier or Flocculant can reverse the charge on the particles making it much harder to filter them out. All Clarifiers and flocculants work in 24 hours or less.



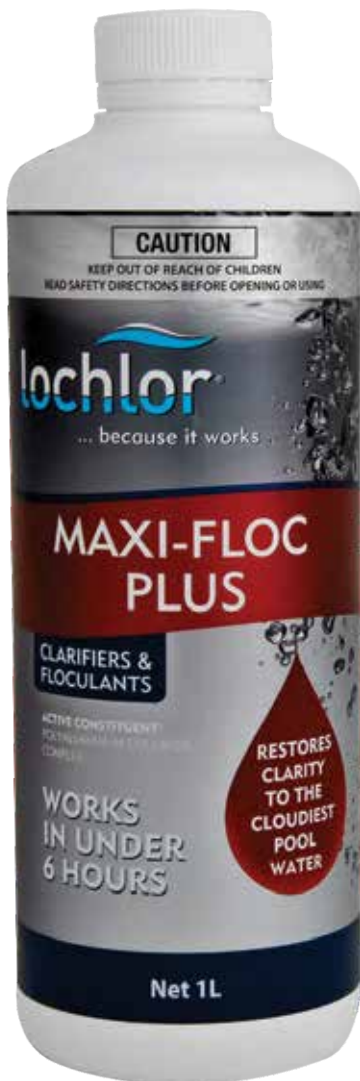
For further information go to our website www.lochlor.com





MAXI-FLOC PLUS

HEAVY DUTY, FAST ACTING LIQUID FLOCCULANT



A specialised blend of our liquid floc combined with a concentrated polymer resin Maxi Floc Plus will settle debris and organic matter to the floor of the pool in 3 – 6 hours.

Benefits

- Clears the cloudiest pools in under 6 hours
- Use to remove dead algae and other floating particles
- No messy residue

Important Notes

- Will not work if algae are present.
- Superchlorinate before using Lo-Chlor Maxi-Floc Plus
- Prior to adding Lo-Chlor Maxi-Floc Plus, adjust pH between 7.5 and 7.8
- If your TDS reading is above 1500ppm, this product will not work effectively
- Unless sufficient Lo-Chlor Maxi-Floc Plus is used, floccing activity will be minimal
- Set the filter to BY-PASS or RECIRCULATE, otherwise remove filter grids prior to application
- After debris has dropped to the bottom of the pool, vacuum to waste where possible, clean the filter and adjust your chemicals if necessary

Sizes

- 1L
- 20L

Dosage

- 1L per 50,000 Litres of pool water

What is the difference between a clarifier and a flocculent?

A clarifier is designed to be used with a filter system, so particles coagulate in the filter. A flocculent is NOT to be used with the filtration system as the filter may clog. Flocculants are formulated to drop particles to the bottom of the pool, so they can be vacuumed away.

Is Maxi-Floc Plus effective in salt-water pools?

- When using Lo-Chlor Maxi-Floc Plus in water containing rich concentrations of positively charged ions (salt-water pools) we always educate our dealers to be aware that the overall floc size is reduced. The result is a floc of lighter appearance and intensity than might otherwise be anticipated.
- We have combated this reduced floc size with the new polymer resin thus ensuring Lo-Chlor Maxi-Floc Plus is the most efficient and successful floc when used in salt water pools.

For further information go to our website www.lochlor.com





MIRACLEAR LIQUID POOL CLARIFIER

THE NO.1 SELLING CLARIFIER ON THE MARKET



Boasting a unique, concentrated polymer resin Miraclear Liquid provides amazing results in a matter of hours.

Benefits

- Unique polyelectrolyte formulation
- Effective clarifier, compatible with all types of pool systems and surfaces
- Will not affect pH balance
- 20% stronger than other major brands
- Non-toxic and non-irritating
- Biodegradable
- Improves filter efficiency

Important Notes

- Can be used as an alternative floccing agent to Alum compounds.
- Excellent sand filter conditioner
- When used consistently, reduces the organic content of your pool water so that you will need to use less chlorine, bromine and algaecide

Sizes

- 1L
- 5L
- 20L

Dosage

- 500mls treats 50,000L pool water

Did you know?

- Lo-Chlor Miraclear Liquid Pool Clarifier is a great alternative where floccing is not an option? This is particularly useful in small above ground pools where no waste line is present
- Simply add the recommended dose of clarifier and let the particles run through normal filtration
- Ensure you regularly clean out the filter or backwash accordingly
- You will be AMAZED at the results

For further information go to our website www.lochlor.com





MIRACLEAR CUBES

THE AMAZING CLARIFIER IN A CUBE



The original **CONCENTRATED CLARIFIER IN A CUBE** that lasts for up to 30 days. Now with added **PHOSPHATE REMOVER**.

LO-CHLOR MIRACLEAR CUBES are the premier clarifier cubes available today. They are the **ONLY CUBES** that can be used with **ALL KNOWN FILTERS**. No other cube on the market can out perform **LO-CHLOR MIRACLEAR CUBES**.

Features & Benefits:

- Super concentrated
- Non toxic & 100% biodegradable.
- Keeps water sparkling for 30 days
- No spill, no mess, no measuring
- Removes stain-causing metals and undissolved particles
- Removes PHOSPHATES
- Does not affect water chemistry
- Just drop in pump basket; dissolves within a 24 hours pump run time

Sizes:

35gm cube treats up to 60,000 litres
50gm cube treats up to 120,000 litres

For further information go to our website www.lochlor.com





PURA BLUE

NATURAL POOL & SPA CLARIFIER



100% Natural polymer that is totally biodegradable

Features & Benefits

- Excellent water polisher suitable for all pool and spa applications.
- Pura Blue is composed of Chitosan.
- This is a natural product made from crushed crab, lobster and prawn shells.
- Removes dissolved metals and oils from the water.
- By reducing the level of body fats and oils, it actually enhances sanitiser activity.
- Enhances filtration cycle, increasing time interval between backwash cycles.
- Can be used with all known pool and spa treatments.
- 100% bio-degradable.

Extra tips and benefits

- Chitosan is derived from crushed crab and prawn shells. It is a truly natural polymer.
- It removes body fats and suntan lotions unlike any other pool or spa clarifier
- Ideal for indoor pools and spas
- Safe to use where fish are present.
- Unlike conventional floccing agents, this product does not deposit suspended matter on the floor of the pool. Suspended matter is filtered from the pool and it accumulates on the filter pads or filter media. This matter is removed when the filter is backwashed.

Sizes

- 1L

Dosage

- 250mls treats 30,000L pool water

Did you know?

- The active constituent in Pura Blue (Chitosan) was originally used by the U.S. Navy to clear seawater for underwater photography.
- Today it is predominantly used as a fat metabolizer in medicine and it is now used widely in medical industries around the globe
- Research has found Chitosan assists in prevention of cancer

For further information go to our website www.lochlor.com





SPARKLE PILLS

CLEAR CLOUDY POOLS QUICKLY



Works particularly well with SAND and GLASS FILTER MEDIA. Can also be used with Cartridge Filters.

Features & Benefits

- 125g Flocculant Tablet
- Aluminium Sulphate Tablet
- Ideal for Sand Filters
- Fast dissolving
- No sticky residue
- Highly Concentrated
- Individually packaged in cloth sock

Extra benefits

- Clears cloudy pools quickly
- Maintains water clarity
- No mess
- Easy skimmer box application

Sizes

- 125g Display Pack
- 10Kg Servicemen's pack
- 45Kg Bulk Drum

Application

- Ensure pH is between 7.2 and 7.6
- Add to skimmer box while pump is running after backwashing

Dosage Rates:

- 1 tablet per 50,000 litres after every backwash
- 2 tablets for pools from 50,000 to 100,000 litres

For further information go to our website www.lochlor.com





ULTRA KLEER 2 IN 1

CONCENTRATED CLARIFIER & FLOCCULANT



EXCELLENT SAND FILTER CONDITIONER

Features & Benefits

- Use as an alternative floccing agent to Alum compounds.
- Whilst **Ultra Kleer 2 in 1** is not as strong as Alum it certainly offers advantages (no messy residue and normally no need to vacuum).
- Sand filtration systems certainly benefit from the addition of **Ultra Kleer 2 in 1**.
- Effective clarifier, compatible with all types of pool systems and surfaces
- Will not affect pH balance
- Non-toxic and non-irritating
- Improves filter efficiency
- When used consistently, reduces the organic content of your pool water so that you will need to use less chlorine, bromine and algaecide

Extra tips and benefits

- Lo-Chlor Ultra Kleer 2 in 1 is an excellent sand filter conditioner
- Simply pour 1L of Lo-Chlor Ultra Kleer 2 in 1 directly into the skimmer and keep pump running for a minimum of 8 – 12 hours
- Fantastic results overnight.

Sizes

- 1L
- 5L
- 20L

Dosage

- Clarifier: 200ml per 50,000 litres.
- Floccing: 500ml per 50,000 litres.
- Sand Filter Aid: 1 litre poured directly into the skimmer.

What is the difference between a clarifier and a flocculent?

A clarifier is designed to be used with a filter system, so particles coagulate in the filter. A flocculent is **NOT** to be used with the filtration system as the filter may clog. Flocculants are formulated to drop particles to the bottom of the pool, so they can be vacuumed away.

For further information go to our website www.lochlor.com





ULTRA KLEER PLUS 4 IN 1

**UNIQUE NATURAL CLARIFYING AGENT
REMOVES SUNTAN LOTION AND BODY FATS**



Features & Benefits

- Excellent pool and spa clarifier suitable for ALL applications.
- Composed of Chitosan A natural product made from crushed crab, lobster and prawn shells.
- Removes dissolved metals and oils from the water.
- By reducing the level of body fats and oils, it actually enhances sanitiser activity.
- Enhances filtration cycle, increasing time between backwash cycles.
- Can be used with all known pool and spa treatments.
- 100% bio-degradable.

Extra tips and benefits

- Chitosan is derived from crushed crab and prawn shells. It is a truly natural polymer. It removes body fats and suntan lotions unlike any other pool or spa clarifier
- Ideal for indoor pools and spas
- Safe to use where fish are present.
- Unlike conventional floccing agents, this product does not deposit suspended matter on the floor of the pool. Suspended matter is filtered from the pool and it accumulates on the filter pads or filter media. This matter is removed when the filter is backwashed.

Sizes

- 1L
- 5L
- 20L

Dosage

- 250mls treats 30,000L pool water

Did you know?

- Environmentally safe, nontoxic and biodegradable, Lo-Chlor Ultra Kleer Plus 4 in 1 attracts the organic debris that causes cloudiness in pool, spa and hot tub water.
- Unlike synthetic, petroleum-based clarifiers, Chitosan actually removes oils from the water. This unique, patented technology works with any pool, spa or hot tub system.
- Chitosan works to encapsulate the oil molecules and holds them in suspension so the oil doesn't stick to pool and spa surfaces or filters.
- When filters are cleaned, the oil is removed in the effluent.
- The filter stays cleaner and lasts longer.

For further information go to our website www.lochlor.com

Manufactured by: **MI International Pty Ltd (t/as Lo-Chlor Chemicals)**

1/154- 164 Renwick Street, Marrickville NSW 2204

Tel: 1-800 64 POOL (7665) | Fax: +612 9573 0566 | E: info@lochlor.com.au | W: www.lochlor.com





PREMIUM STRENGTH COMMERCIAL CLARIFIER



LO-CHLOR PREMIUM STRENGTH COMMERCIAL CLARIFIER is a natural concentrated clarifier that is specially formulated to remove body fats and oils in **COMMERCIAL POOLS**. The product is made from **CHITIN** (pronounced kite-in) which came into being in the 1970's when the EPA ordered fishing companies to stop dumping the shells of **crabs and lobsters** back into the ocean.

Researchers discovered that the chitin contained in the shells had properties that could be applicable in a variety of industrial uses. Similar to **cellulose**, chitin is a **naturally occurring polymer**. It is also the only naturally **occurring polyelectrolyte**.

Chitin is produced in a patented formula called **LO-CHLOR PREMIUM STRENGTH COMMERCIAL CLARIFIER** which, as the name implies, is specially designed for **COMMERCIAL POOL** use.

Benefits

- The properties of chitin enable it to attach itself to a variety of organic contaminants, minerals, metals and oils.
- The result is clearer, cleaner water with less staining and scaling.
- It also has a beneficial effect on the filtering medium, whether sand, DE or cartridge.
- The efficiency of filtering improves with regular use
- Chitin's natural coagulants help the filter to trap more dirt and debris.
- **LO-CHLOR PREMIUM STRENGTH COMMERCIAL CLARIFIER** is compatible with all types of pool chemicals and pool finishes
- It is a great addition to any sanitising program.
- Commercially it can be described as an all in one replacement for clarifiers, filter aids, stain & scale magnets, and enzymes.

Sizes:

5 Litres
20 Litres

Dosage:

0.4 Litres treats 250,000 Litres pool water
1.6 Litres treats 1000,000 Litres pool water

For further information go to our website www.lochlor.com





P.A.C. SOLUTION

COMMERCIAL GRADE CLARIFIER



Poly Aluminium Chloride products are aluminium-based coagulants. They are similar to (Alum) Aluminium Sulphate, with several important differences:

- Partially pre-neutralised (Higher basicity than alum).
- Contain Cl instead of SO₄.
- Contain up to 3 times the aluminium content.

Some of the advantages of LO-CHLOR P.A.C. over conventional Aluminium Sulphate are

- Lower dosage requirement
- No requirement for any neutralising agent (soda, lime)
- Shorter flocculation time
- Smaller amount of sludge
- Reduced number of back washing steps
- Higher quality of the treated water.

Technically LO-CHLOR P.A.C. is an inorganic cationic polyelectrolyte. This means that it contains long chains of positively charged molecules. In the water it behaves somewhat like (Alum) Aluminium Sulphate in that it reacts and binds to form large, heavy flocs that sink to the pool bottom.

How does it work?

Turbid water generally contains many tiny particles that are only a few microns in diameter. These particles will typically all have the same negative chemical charge. These particles form what is known as colloidal suspension. That is, since the particles all carry the same charge, they repel each other, so they do not settle. Also, because they are very small, they are almost impossible to filter out. When LO-CHLOR P.A.C. is added to water that contains these colloidal particles it binds them in to larger aggregates that can settle to the bottom of the pool.

Benefits

- Poly Aluminium Chlorides are synthetic polymers dissolved in water.
- They react to form insoluble aluminium poly-hydroxides which precipitate in big volumetric flocs.
- The flocs absorb suspended pollutants in the water which are precipitated with the LO-CHLOR P.A.C. and can together be easily removed.
- Very easy to apply
- Used extensively in commercial pools, swim schools as well as hotel and resort pools

Size: 20 Litres

Dosage: 5 Litres treats 250,000 Litres pool water

For further information go to our website www.lochlor.com





MAINTENANCE & CLEANING RANGE

ADVANCED FORMULATIONS FOR POOL PROFESSIONALS

The Lo-Chlor Chemicals specialty range of Maintenance and Cleaning products is one of the most advanced and comprehensive ranges in the Australian specialty pool and spa chemical market.

It consists of manufactured and merchandise products from Australia and other parts of the world. These unique products consist of proven quality formulas. Supplementary buy-in products of specialist chemicals are sourced both locally and internationally to fulfil the demand to be a full cleaning range.

Our suppliers recognise the Lo-Chlor Chemicals name as being one of quality and value. Our established customer base is a solid foundation to bring you the largest range of maintenance and cleaning products in the Australian pool and spa chemical market.

The Lo-Chlor Maintenance & Cleaning range consists of:

- | | |
|---------------------------------------|---------------------------------------|
| Anti-Crystallite | Aqua- Boost |
| Aquaguard CSM | Bio-Klenz |
| Calcium Hardness Reducer | Chlorine Remover |
| Clean Cell Plus | Filter Aid & Metal Remover |
| Fume Away | Cyanuric Acid Remover |
| Filter Cleaner & Degreaser | Glass & Chrome Cleaner |
| Green Cell Plus | Hydra Slip Lubricant |
| Hydra Slip Lubricant Spray | Instant Filter Cleaner |
| Leak Sealer | Liquid Stabiliser |
| No More Bugs | No More Ducks |
| Salt Cell Protector Plus | Shock N Swim |
| Solar Shield | Tile & Vinyl Cleaner Spray |



For further information go to our website www.lochlor.com



ANTI-CRYSTALLITE

PREVENTS CRYSTALLISATION OF LIQUID CHLORINE FEED LINES



Benefits

- Complex magnesium proprietary formulation.
- Ideal for both commercial and domestic applications.
- Easy and economical to use.
- Compatible with all automatic liquid chlorinator systems.

Important Notes

- Add to the bulk drum when refilling. Never add to the pool.
- Do not use with any other type of chlorinating or brominating device.
- Continual use of anti-crystallite in un-balanced pools may result in staining of plastic pool fittings.
- Make sure that the water is always in balance.

Sizes

- 1L
- 5L

Dosage

- Read directions on bottle for dosage rates and instructions

A few tips from the Lo-Chlor team...

- Lo-Chlor Anti Crystallite contains a blend of potassium permanganate and other rare compounds. These metallic compounds can cause mild staining.
- If staining occurs, an addition of Lo-Chlor Multi Stain Remover followed up by Lo-Chlor Metal Solution will remove such stains within minutes.
- Do not overdose!
- Read directions on bottle for dosage rates and instructions

For further information go to our website www.lochlor.com





AQUA-BOOST

NON CHLORINE SHOCK TREATMENT



Highly concentrated oxygen compound that reduces and eliminates combined chlorine levels in pools and spas.

Benefits

- Use as a non-chlorine shock for pools, spas, hot tubs, ornamental ponds and fountains.
- **Excellent OXIDISER** for **Ionised** and **Nature 2** Pools and Spas.
- White, flowable powder.
- Oxidises organic contaminants.
- Used regularly – potentiates sanitiser effect.
- pH neutral – compare to similar products.
- Contains clarifying agent for sparkling clear water.

Important Notes

- **Lo-Chlor Aqua-Boost** is not a sanitiser and does not replace chlorine or bromine.
- **Lo-Chlor Aqua-Boost** can also be used in ornamental ponds and fountains.
- Unlike other non-chlorine shocks (which lower pH), Lo-Chlor Aqua-Boost does **NOT** affect the pH of Pool Water.
- Users should take care when using this product.
Please read safety directions before use.

Sizes

- 1Kg
- 5Kg
- 20Kg

Dosage

- Read directions on bottle for dosage rates and instructions

Extra tips...

- Because Lo-Chlor Aqua-Boost has the ability to oxidise protein and other organic material it is an invaluable aid in pool and spa treatment, where shocking is required.
- A regular dose will benefit all pools and spas (we recommend this be done at least monthly). It is particularly useful in salt chlorinated pools and Ionised pools. Bathers can enter the pool 15 minutes after application.

For further information go to our website www.lochlor.com





AQUAGUARD C.S.M

CELL PROTECTOR, SCALE INHIBITOR, METAL REMOVER



MULTI-FUNCTION preventative product that should be recommended for **REGULAR USE**. It is a versatile and economical speciality product that can be used for a diverse range of solutions to enhance the quality of **POOL SURFACES, POOL EQUIPMENT** and **POOL WATER**.

Features & Benefits

Prevents the build-up of **CALCIUM/SCALE** from pool walls, equipment and pipes and assists in the removal of existing scale.

Acts as a **SALT CHLORINATOR CELL PROTECTOR**

Acts as an extremely powerful **SEQUESTERING AGENT** meaning that its presence in the water will prevent metal elements such as iron and copper from dropping out of solution. It will **NOT ADD PHOSPHATES** to the water

Highly economical - Just **4 TREATMENTS** (2 bottles) a year for a **50,000 litres** pool

C - CALCIUM/SCALE

- Regularly added to a pool it will limit the chances of **SCALE FORMATION & STAINING**.
- Prevents the build-up of calcium/scale and magnesium on the pool surface
- Prevents calcium/scale from dropping out of solution
- Aids in removal of existing calcium/scale and magnesium from walls of pool.

S - SALT CELL PROTECTOR

- Prevents the build-up of calcium/scale on chlorinator cells **KEEPING THEM SOFT** and minimising the likelihood that build up will occur in the first place.
- A hard build-up of calcium/scale will result in a decrease in the production of chlorine gas and a **REDUCTION IN THE OVERALL PERFORMANCE** and efficiency of the unit.

M – METALS

- Prevents various coloured, unsightly stains on both the walls and floor of the pools
- Perfect for pools using **BORE WATER**
- Aids in the **REMOVAL** of metal staining to both the walls and floor of the pool.
- In conjunction with a Lo-Chlor **STAIN REMOVER** it can assist in lifting the stain from the pool surface and back into the water to be filtered out

Sizes:

- 1 litre
- 20 litre

Dosage: Add 500ml to 50,000 litres of pool water once every 3 months

For further information go to our website www.lochlor.com





BIO-KLENZ

REMOVES AND PREVENTS BIO-FILM



PREMIUM STRENGTH CONCENTRATED BIO-FILM REMOVER

Lo-Chlor **BIO-KLENZ** is an environmentally friendly, easy to use liquid, that you simply add to a pool **ONCE EACH MONTH** to combat Bio-Film and to maintain perfect clarity while using less chlorine and other chemicals.

Features & Benefits

- Gives cleaner, clearer, healthier, softer, less aggressive water all the time.
- Saves money on chemicals and electricity
- Filter and plumbing lines stay clean as a whistle
- Aggregate surfaces will be smoother with less calcium nodules.
- Salt Chlorinator cells last longer
- Less red eye and green hair syndrome.
- Liners will last longer and remain supple (not dry out as fast).
- Heater, heat pump and solar systems will last longer due to lower sanitiser levels.
- Pool cleaners have less particulates to capture lowering turbidity levels.
- Can be used in all types of pools
- Effective with all types of sanitisers

Sizes:

1 litre, 5 litre and 20 litre

Dosage:

1 litre treats 60,000 litres (recommended application monthly)

A few facts about Bio-Film

Formation of Bio-Film starts with the attachment of free-floating microorganisms to a surface. At first the adhesion is weak and at this stage they can be easily separated from the surface. They then anchor themselves more permanently using cell adhesion structures. The matrix that holds the Bio-Film together builds further with the attachment of more cells. The Bio-Film grows through a combination of cell division and recruitment. The final stage of Bio-Film formation is known as development, and is the stage where bacteria is released from the Bio-Film. Bio-Films are the root cause of slime, mould, gunk and scale in pools, spas and hot tubs. Bio-Films are difficult, if not impossible, to directly kill and they absorb chlorine, bromine and shock treatments - all of which are added in an attempt to kill the Bio-Film.

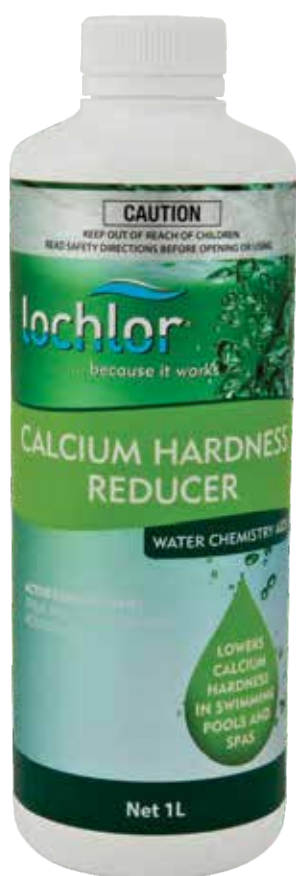
BIO-KLENZ removes the harmful Bio-Film and if used regularly will keep water fresh and bacteria free.

For further information go to our website www.lochlor.com



CALCIUM HARDNESS REDUCER

REDUCES CALCIUM HARDNESS LEVELS IN SWIMMING POOLS



Hydroxyethylidene Diphosphonic Acid Complex

Benefits

- Reduces calcium levels to the ideal range of 200-400ppm
- It will restrain calcium scale formation on pool and spa surfaces as well as valuable equipment.
- It will restore water clarity on application.

What advantages does it have over other similar products?

- Lo-Chlor Calcium Hardness Reducer is a made with highly concentrated liquid formulation.
- It is compatible with all recognised sanitisers and other pool and spa additives
- It may be used in all types of pool and spa finishes.
- It is easy to use
- It is economical to purchase
- There is no residue so no need to vacuum pool to waste

Important Notes

An additional benefit of **Lo-Chlor Calcium Hardness Reducer** is that it will also chelate and **keep in solution trace metals**, such as iron and copper, thus aiding in the prevention of unsightly staining on pool and spa surfaces

Companion products

- Use **Lo-Chlor Aquguard C.S.M.** to reduce and soften the build up of calcium scale on swimming pool and spa surfaces
- Salt chlorinator owners should use **Lo-Chlor Salt Cell Protector Plus** to reduce and soften deposits on salt chlorinator cells making them much easier to clean

Sizes

- 1L

Dosage

- 1L treats 50,000 litres pool water

For further information go to our website www.lochlor.com





CHLORINE REMOVER

LOWERS CHLORINE LEVELS IN POOLS AND SPAS



Benefits

- Reduces chlorine and bromine levels in pools and spas
- Compatible with all other pool chemicals
- Results in hours
- Highly concentrated
- Does not reduce chloramines or combined chlorine levels

Important Notes

- This product is extremely potent. For domestic swimming pools only add one capful at a time. Don't use more than indicated as achieving a chlorine level will become very difficult.
- When using in a fibre glass pool, pre-dissolve in a bucket. Direct addition of Chlorine Remover can cause staining of fibre glass surfaces when the pool water is incorrectly balanced.

Sizes

- 500g
- 1Kg
- 5Kg
- 20Kg

Dosage

50g of Lo-Chlor Chlorine Remover will reduce Chlorine levels by 1ppm in a 50,000 Litre Pool

For further information go to our website www.lochlor.com





CLEAN CELL PLUS

STRONG ACIDIC MIXTURE THAT IS RE-USABLE & SAFE



**A complex blend of phosphoric acid and non ionic surfactants.
DOES NOT CONTAIN HYDROCHLORIC ACID**

Benefits

- Removes calcium build up from salt chlorinator cells
- Also removes grime and organic build up
- Does not affect precious metals on salt chlorinator cells (Unlike other harsh compounds that contain Hydrochloric Acid)
- Reusable solution
- Prolongs life of salt chlorinator cell
- Increases efficiency of salt chlorine generation
- Compatible with ALL salt chlorinators

Important Notes

- Reusable (at least 3-4 times)
- Contains acid – follow safety directions and use caution

Sizes

- 1 Litre ****NEW SIZE****
- 5 Litres

Application

- Pour Lo-Chlor Clean Cell Plus into a plastic container
- Immerse the salt chlorinator cell in the plastic container for around 10 minutes
- Heavily encrusted cells may require further treatment
- Best results will be obtained when the cell is hosed in warm water before treatment

Hot Tips for professionals

- Try Lo-Chlor Clean Cell Plus for those hard to remove scum lines around the pool waterline.
- Just rub on with a damp cloth. You'll be amazed at the result
- Don't forget to wear gloves

For further information go to our website www.lochlor.com





CYANURIC ACID REDUCER

EFFECTIVELY REDUCES CYANURIC ACID LEVELS WITHOUT EMPTYING THE POOL



The **REVOLUTIONARY** patented formulation that effectively reduces CYA levels from swimming pool water.

No more draining pools, no more wasting water. This amazing product is the first of its kind and the results are impressive.

Features & Benefits

- **Naturally, safely & rapidly reduces CYA levels in swimming pools.**
- No need to drain pools due to high CYA levels.
- Eliminates chlorine lock caused by high CYA levels.
- Advanced biocatalyst technology.
- Non-toxic, non-allergenic, non-polluting.

Dosage Rate & Helpful Tips:

- 1 x 225g sachet will treat up to 90,000 Litres Pool Water
- Run Filter for a minimum 4 hours after application.
- Reaction time takes at least 5-7 days in all cases.
- For pools with Cyanuric Acid levels over 200ppm a second dose may be required.
- Accurate testing of Cyanuric Acid levels in the beginning is critical when determining exact level of Cyanuric Acid before treatment

Sizes:

225g Sachets

The All Natural and Ultra Powerful Water Treatment Solution

For further information go to our website www.lochlor.com



FILTER AID & METAL REMOVER

AIDS IN FILTRATION OF METALS FROM WATER



Unique cellulose fibres that **AID IN THE FILTRATION OF METALS** from pool water. These fibres **coat any filter with a gel that improves filtration drastically** in a very short time.

Benefits

- **Lo-Chlor Filter Aid & Metal Remover** is a fast acting filter aid clarifier to remove dissolved metals, dead algae and other suspended matter from pool water.
- **Lo-Chlor Filter Aid & Metal Remover** is a dual acting product that works within your sand, cartridge or DE filter.
- **Lo-Chlor Filter Aid & Metal Remover** spreads a coagulant over the sand to stop small particles passing through the media and returning to the pool.
- **Lo-Chlor Filter Aid & Metal Remover** is also ionically charged to attract the negatively charged debris again, preventing it from returning to the pool.

Sizes

- 300G

Dosage rates

- Read directions for use carefully before use
- More information about this new and exciting product...
- Enhances the efficiency of all types of pool filtration systems
- Traps minute particles of waste that would normally pass through the filter
- When used with Lo-Chlor Metal Solution, this product aids in the removal of metals such as copper, iron and manganese that would otherwise cause pool surface staining or water discolouration.

For further information go to our website www.lochlor.com





FUME-AWAY

REDUCES NASTY FUMES FROM HYDROCHLORIC ACID



A unique complex formulation designed to reduce fumes associated with Hydrochloric Acid

Features & Benefits

- Reduces fumes of Hydrochloric Acid
- Ideal for service technicians when acid washing pools.
- Does not alter the efficacy or strength of Hydrochloric Acid.
- Promotes a more uniform acid wash.
- Very economical for ongoing use.

Sizes

- 1L

Dosage Rates

- 300mls added to every 5L bottle of Hydrochloric Acid
- 1L added to every 15L drum of Hydrochloric Acid

For further information go to our website www.lochlor.com





FILTER CLEANER & DEGREASER

STRONG ORGANIC / INORGANIC COMPOUNDS



Proprietary blend which removes grime, organic build up and **CALCIUM SCALE** unlike most other filter cleaners on the market

Benefits

- 24 hour application.
- Enhances chemical performance.
- Prolongs life of filter media.
- Advanced formulations for the cleaning and degreasing of D.E. filters and cartridge filter grids.
- Also used for all types of sand filters.
- Removes grime, dead algae, oil, organic deposits as well as scale and unwanted metals.

Sizes

- 1L
- 5L

Dosage rates

Read directions for use carefully before use as there are multiple applications to choose from depending on Filter Media.

Hot tips for pool professionals

- D.E. and Cartridge Filters: Best results will be obtained when the soiled elements are hosed before cleaning to remove as much debris as possible. Also hose well before re-assembly.
- Never add this product to pool water.
- Lo-Chlor recommend that filters be cleaned regularly.
- Sand filters at least twice a year.
- D.E. and cartridge as necessary.
- Make filter cleaning part of your regular winter shutdown maintenance program.
- Your customers will thank you.

For further information go to our website www.lochlor.com





GLASS & CHROME CLEANER

A GLASS CLEANER DESIGNED FOR SWIMMING POOL FENCES & SURROUNDS

Extremely powerful, multi purpose stain remover for glass, chrome and other surfaces around the pool surrounds



Features & Benefits:

- Removes **CALCIUM**, **SCALE** and **RUST** from both **GLASS** and **CHROME** surfaces
- Perfect for cleaning **GLASS POOL FENCING**
- Ideal for **CHROME FITTINGS**
- **NON-STREAKING** and the results **LAST FOR MONTHS**.
- **CONCENTRATED, EXTREMELY HIGH STRENGTH** formula
- **ECONOMICAL** and **FAST ACTING**
- **INNUMERABLE** other uses **AROUND THE HOME**
- Can be used on both **BOATS** and **CARS**
- Will brighten up **MIRRORS** and **SHOWERS**
- Stubborn **STAINS** and **STREAKS** will become a thing of the past.
- **YOU'LL BE AMAZED AT THE RESULTS ACHIEVED**

Sizes:

750mls Trigger Spray Bottle

For further information go to our website www.lochlor.com





GREEN CELL PLUS

THE FIRST NON D.G, NON HAZARDOUS CELL CLEANER



A proprietary blend of renewable resources

Benefits

- Removes calcium build up from salt chlorinator cells
- Also removes grime and organic build up
- Does not affect precious metals on salt chlorinator cells (Unlike other harsh compounds that contain Hydrochloric Acid)
- Reusable solution
- Prolongs life of salt chlorinator cell
- Increases efficiency of salt chlorine generation
- Compatible with ALL salt chlorinators
- 100% natural and totally biodegradable

Important Notes

- Reusable (at least 3-4 times)
- Non hazardous and non corrosive
- Ideal for all salt pool owners

Sizes

- 5L

Application

- Pour Green Cell Plus into a plastic container
- Immerse the salt chlorinator cell in the plastic container for around 10 minutes
- Heavily encrusted cells may require further treatment
- Best results will be obtained when the cell is hosed in warm water before treatment

Hot Tips for professionals

- Lo-Chlor Green Cell Plus is renowned for its ability to clean concrete, tiles and other porous surfaces
- Use around the house, on the garage floor, pavers, around the pool and in the house
- Totally non hazardous and bio-degradable it is the perfect around the house solution

For further information go to our website www.lochlor.com





HYDRA-SLIP LUBRICANT

HIGHLY ADVANCED SILICONE LUBRICANT



Highly advanced **SILICONE LUBRICANT** Specifically Designed For Swimming Pool Equipment and Accessories

Benefits

- Long lasting silicone lubricant designed to protect rubber and plastic parts from wear and tear.
- Will not expand or weaken rubber parts or 'o' rings.
- Use on 'o' rings, seals, hinges, automatic pool cleaners.
- Hydra Slip repels moisture and is especially formulated for plastics and rubber parts coming in to contact with chlorinated water.
- Non staining, therefore ideal for all pool equipment.
- Great for marine uses. Many applications for boats and also used for diving equipment

Important Notes

- There are many silicone lubricants available.
- Always make sure that the product you are using has been tried and proven for swimming pool applications

Sizes

- 20g Pots
- 50g Pots
- 75g Tubes
- 500g Jars
- 1Kg Jars

Dosage

- N/A

Did you know...?

- Lo-Chlor Hydra Slip has been on the market since 1989.
- The formulation has never changed and is still the No.1 selling silicone based lubricant on the market today.

For further information go to our website www.lochlor.com





HYDRA-SLIP SPRAY

HIGHLY ADVANCED SILICONE LUBRICANT



Highly advanced SILICONE LUBRICANT Specifically Designed For Swimming Pool Equipment and Accessories

Benefits

- Long lasting silicone lubricant designed to protect rubber and plastic parts from wear and tear.
- Will not expand or weaken rubber parts or 'o' rings.
- Use on 'o' rings, seals, hinges, automatic pool cleaners.
- Hydra Slip repels moisture and is especially formulated for plastics and rubber parts coming in to contact with chlorinated water.
- Non staining, therefore ideal for all pool equipment.
- Great for marine uses. Many applications for boats and also used for diving equipment

Important Notes

- There are many silicone lubricants available.
- Always make sure that the product you are using has been tried and proven for swimming pool applications

Sizes

- 200g Aerosol Spray

Dosage

- N/A

Did you know...?

- Lo-Chlor Hydra Slip has been on the market since 1989.
- The formulation has never changed and is still the No.1 selling silicone based lubricant on the market today.

For further information go to our website www.lochlor.com





INSTANT FILTER CLEANER

NON SOAK FORMULATION



Proprietary blend which removes grime, organic build up, body fats, oils, suntan lotion and calcium deposits

Benefits

- Specially formulated for the removal oils, minerals and debris from your spa and hot tub filter.
- Supplied in a handy trigger spray its Non-Soak enables the filter to be cleaned quicker resulting in less down time of your spa and hot tub.

Sizes

- 500mls

Dosage rates

Read directions for use carefully before use

Hot tips for pool professionals

- D.E. and Cartridge Filters: Best results will be obtained when the soiled elements are hosed before cleaning to remove as much debris as possible. Also hose well before re-assembly.
- Never add this product to pool water.
- Lo-Chlor recommends that filters be cleaned regularly.
- Make filter cleaning part of your regular winter shutdown maintenance program.
- Your customers will thank you.

For further information go to our website www.lochlor.com





LEAK SEALER

SEALS MINOR CRACKS & LEAKS IN PIPE WORK
AND POOL SURFACES



Benefits

- Seals minor leaks in most swimming pools & spas
- Can seal leaks losing up to 3.5cm of water per day (in a 50K litre pool)
- No need to empty pool or spa
- Fast acting - usually stops leaks in 24 hours

Important Notes

- NOT suitable for repairing leaks in vinyl liner pools
- Larger defects require proper plumbing and maintenance
- If using an automatic pool cleaner, remove the cleaner from the pool
- Do not allow Leak Sealer to pass through filtration system
- Do not exceed recommended dosage rate

Sizes

- 1L

Dosage

- 1L treats 50,000 Litres pool water

How does Leak Sealer work?

Leak Sealer has a very high pH (about 12) so when you add it to your pool it takes on the pH of pool water (between 7.0 and 8.0). It now no longer functions as a liquid and starts to solidify in the presence of oxygen at the site of the leak. To ensure best results, please follow the instructions on the bottle or visit our website below.

For further information go to our website www.lochlor.com





LIQUID STABILISER

FAST DISSOLVING STABILISER GIVING IMMEDIATE PROTECTION



This product has been specially formulated for swimming pools and very effectively guards them from the harsh rays of the sun. **It puts an invisible blanket over the pool all year round protecting chlorine from ultraviolet light.** When used regularly **LO-CHLOR LIQUID STABILISER** will assist in reducing chlorine demand and consumption. Running costs will therefore be reduced.

Regular usage also improves filtration and ensures that stabiliser levels remain at the perfect level for 365 days of the year which in turn assists in keeping the pool water in perfect balance for that period.

LO-CHLOR LIQUID STABILISER Is fast dissolving and there is no mixing involved. The product is simply poured either directly into the pool or via the skimmer box. It is ideal for all pool finishes.

Benefits

- Protects chlorine from the harsh rays of the sun.
- Dissolves instantly.
- Dry Cyanuric acid can take 7-10 days to dissolve and start working.
- Immediate protection, protects chlorine from the moment it is added.
- Easy to use, No messy dilutions or pre-dissolving.
- Less harsh than acid-based stabilisers
- It is not an acid – it is a salt.
- It has a pool friendly pH.
- Chlorine will last 6 to 10 times longer in pool water.
- Reduces chlorine demand and consumption.
- Reduces running costs.
- Concentrated liquid
- 5 litres increases cya level by 35ppm in 50,000 litre pool.
- Will not harm any equipment or pool surface.
- Works efficiently in any water temperature.
- Improves filtration.
- Ensure perfect stabiliser levels 365 days of the year.

Sizes

- 2.5 Litre
- 5 Litre

For further information go to our website www.lochlor.com





NO MORE BUGS

ELIMINATES INSECTS FROM POOL WATER SURFACES



Benefits:

- A unique non-foaming formulation
- Reduces the surface tension of pool water, completely ridding the pool surface of floating insects
- With reduced surface tension insects cannot float and they sink to the bottom of the pool where they are filtered or vacuumed away.

Important Notes:

- For best results, add as close as possible to problem area of pool.
- Repeat application if necessary.
- Do not add to skimmer basket.
- Insects sink to base of pool. Filter or vacuum to waste.

Sizes

- 1L

Dosage

- 1L treats 50,000L pool water

Important facts...

- Where funnel web spiders are present use Lo-Chlor No More Bugs to end their survival in your (or your customers) swimming pool.
- Lo-Chlor No More Bugs breaks the surface tension of the water
- Once the tension is broken the funnel web spider is unable to create the bubble of air that enables it to survive under water.

For further information go to our website www.lochlor.com





NO MORE DUCKS

HELPS DETER DUCKS FROM SWIMMING POOLS



Benefits

- Reduces the surface tension of the water.
- Not harmful to ducks or humans.
- Can be used in all types of pool finishes.
- Compatible with all recognised sanitisers and other pool additives.

Important Notes

- The easy way to describe how the product works to customers is to ask them if they have heard the expression “water off a ducks back”. You can then tell them that unlike water, no more ducks doesn’t fall off of their backs and this is what makes them leave the pool.
- Advise pool owners that the product may smell and foam for a short period.
- Use only when ducks are present in the pool.
- Use caution when ducklings are present.

Sizes

- 5L
- 20L

Dosage

- 5 Litres treats 50,000 litres pool water

A few facts from the professionals...

1. Lo-Chlor No More Ducks contains a proven agent, Alkyl Dimethyl Benzyl Ammonium Chloride. Not only is it a good duck repellent but it is also a very effective anti-algae treatment.
2. As the compound suggests this blend contains ammonia.
3. When added to a pool running with a salt chlorinator the ammonia occasionally reacts with the gases produced in the salt chlorinator cell causing fine bubbles to form on the surface of the pool.
4. These bubbles will dissipate as soon as the chlorinator is switched off and usually only last 5-7 days.
5. Note: High doses of quaternary ammonium compound may combine with free chlorine, resulting in excess levels of combined chlorine. This phenomenon lasts 2 or 3 days.

For further information go to our website www.lochlor.com





SALT CELL PROTECTOR PLUS

SOFTENS CALCIUM BUILD UP ON SALT CHLORINATOR CELLS



Benefits

- Advanced **magnesium based formulation** (soft compound)
- As well as limiting the build up of calcium scale on salt chlorinator cells, **Lo-Chlor Salt Cell Protector Plus** will **soften any deposits**, making them so much **easier to remove**.
- One treatment of **Lo-Chlor Salt Cell Protector Plus** will **last for approximately 6 months**
- Extremely economical product to use.
- **Lo-Chlor Salt Cell Protector Plus** increases chloride concentration in water-enhancing chlorine production.

Important Notes

- **Does not contain sulphates like Epsom salts.**
- These **sulphates can attack cement and grout**, which will in turn deteriorate over time.
- Helps protect marble sheen and exposed aggregate surfaces from scaling.

Sizes

- 5L

Dosage

- 5L per 50,000 Litres pool water every 6 months

Did you know?

- Salt chlorination has overcome the limitations of hand-dosing through the on-site production of chlorine.
- Current estimates place salt chlorination in over 60% of all pools in Australia and New Zealand.
- Lo-Chlor Chemicals has the most advanced range of specialised salt water treatments to service all your pool and spa needs.

For further information go to our website www.lochlor.com





SHOCK 'N' SWIM

POWERFUL CHLORINE FREE SHOCK WITH INSTANT RESULTS



SHOCK "N" SWIM is a highly concentrated oxygen compound that reduces and eliminates combined chlorine levels in pools and spas.

Because **Lo-Chlor SHOCK "N" SWIM** has the ability to oxidise protein and other organic material, it actually breaks up organic matter. It reduces combined chlorine build ups and actually enhances the action of free chlorine in the pool or spa water

Features & Benefits

- Use as a **non-chlorine shock** for pools, spas, hot tubs, ornamental ponds and fountains.
- Excellent oxidiser for Ionised and Nature 2 Pools and Spas.
- Oxidises organic contaminants.
- Used regularly – potentiates sanitiser effect.
- Contains clarifying agent for sparkling clear water
- Has an active oxygen content of **13.5%** minimum which is much higher than monopersulphate or perborate compounds.
- These compounds have oxygen contents of 4.5% and 10%.
- It is for this reason that much less **SHOCK "N" SWIM** is required to treat a pool or spa.
- When dissolved in water it converts to Sodium Carbonate plus Hydrogen Peroxide - the oxidising component.
- Hydrogen Peroxide is considered to be an effective bacteriostat
- No effect on filter pressure
- Compatible with all registered sanitisers and does not affect probes on automatic liquid feeders or other dosing units.

Sizes:

- 500gm
- 1kg
- 5kg
- 20kg

Dosage: 500gm will shock treat a 50,000 litre swimming pool.

For further information go to our website www.lochlor.com





SOLAR SHIELD

LIQUID SOLAR BLANKET FOR SWIMMING POOLS



**Protect your pools from evaporation and heat loss
Save Money | Guaranteed Protection**

Lo-Chlor SOLAR SHIELD an environmentally friendly, easy to use liquid, that you simply add to a pool **ONCE A MONTH** to reduce evaporation by over 30% guaranteed.

Features & Benefits

- **Lo-Chlor Solar Shield** is designed to prevent pool water heat loss and evaporation. Adds an ultra-thin, invisible barrier which helps protect your pool from evaporation and heat loss.
- **Independent testing shows it can reduce your water loss and evaporation by more than 30% on a weekly basis.**
- A safe alternative to traditional covers, making this a family-friendly option for children and pets.
- Long Lasting – **30 Days of Protection.** Provides up to **1 month of protection per dose**, while other liquid cover products need to be added daily
- It has been shown to be **50% more effective than other liquid blankets**
- It has a non flammable formulation
- Its efficiency will not be affected by automatic pool cleaners
- It may be used in all types of pool finishes
- It is compatible with all recognised sanitisers and other pool additives

Sizes:

500mls and 1 litre

Directions for use:

Shake bottle before using. With the pump running, add 250mls per 50,000 litres of water. (For best dispersion, add Solar Shield in front of pool return line or to skimmer). Run the pump daily for proper circulation.

Lo-Chlor's **Solar Shield** has met the stringent requirements of **SPASA Australia's Climate Care Certified program**. The Climate Care Certification Program is an initiative of the Swimming Pool & Spa Association of Australia Ltd (SPASA). It is the industry's efficiency and sustainability certification program.



**CLIMATE CARE
CERTIFIED**

For further information go to our website www.lochlor.com



TILE & VINYL CLEANER

ADVANCED ALL PURPOSE CLEANER FOR ALL POOL SURFACES



Benefits

- Cleans grime, oil, grit and scum off swimming pool surfaces and tiles
- Ideal for cleaning water line stains
- Does not affect water balance
- Will not cloud water
- Ideal for all domestic and commercial application
- Available in easy to use spray pack
- Removes organic deposits

Important Notes

- If using for long periods of time it is recommended you wear gloves
- Product is highly alkaline
- Use on bathroom tiles and around the house
- New formulation now more than twice as strong
- Available in bulk sizes for commercial applications

Sizes

- 750mls spray pack
- 5L Bulk

A few facts from the professionals...

- Once you have removed scum marks or waterline marks from indoor pools use Lo-Chlor Ultra Klear Plus 4 in 1 to prevent the reoccurrence of such a build up.
- Unlike synthetic, petroleum-based clarifiers, Lo-Chlor Ultra Klear Plus 4 in 1 actually removes oils from the water. This unique, patented technology works with any pool, spa or hot tub system.
- Lo-Chlor Ultra Klear Plus 4 in 1 works to encapsulate the oil molecules and holds them in suspension so the oil doesn't stick to pool and spa surfaces or filters.
- When filters are cleaned, the oil is removed in the effluent.
- The filter stays cleaner and lasts longer.

For further information go to our website www.lochlor.com





THE LO-CHLOR STAIN BUSTERS

SOLUTIONS FOR EVERY STAIN IN EVERY POOL

All you need to know about metal and organic stains and most importantly - how to remove them...

Stains are a common occurrence in pools but nothing about stains is simple. There is no simple 1,2,3 for stains. What works well on one stain may not be nearly so effective on the next. No two pool owners will describe the same stain in the same way. What appears brown to one pool owner will appear green to the next.

The first rule of stain removal is to test the stain. The second rule is never give guarantees.

What are stains?

A stain is something that alters the appearance of the pool surface to the detriment of the pool. This definition includes scale and most pool owners would indeed call scale a stain. Scale is usually coloured because of the inclusion of metals and dirt. In the strict sense scale is not a stain but a deposit of Calcium Carbonate (chalk) on the pool surface which can be recognized by the milky appearance and by the rough surface (often referred to as like sandpaper). Stains can be the size of a hair clip or to where the whole pool surface is stained. It is rare to find a pool that does not have stains of some description and it is a case of what the pool owner sees as beyond acceptable that determines if or when you will be called in.

What are some of the common causes of stains?

Introduction of metals into the water which react with Chlorine or the slightly alkaline pH to give dark coloured metal oxides which we call stains.

Metals can be introduced by:

Salt added to a salt water pool. Salt is the most common cause of stains. Usually Iron which depending on the severity gives green through yellow to brown stains or Manganese which gives dark brown to black stains.

Liquid Chlorine. Whose yellow colour is usually Iron. After continuous use for years the Iron build up can cause yellow staining.

Top up water. Especially bore water which can contain Iron, Manganese or Copper.

Algaecides containing metals. May include Copper, Silver and/or Nickel, all of which give black stains.

Metal fixtures. Especially in Above Ground pools where the ladder and walls are made of cheap stainless steel which give Iron stains.

Garden dirt washed into the pool after heavy rain or hosing. May contain Iron, Manganese, Vanadium, Copper to name a few.

Black Spots in Fibreglass Pools. The Black Spots are Cobalt Oxide stains. The Cobalt comes from osmosis of the gel coat which leaches some of the Cobalt catalyst from the fibreglass (polyester) resin. Osmosis is also characterised by blisters at the site of the black spot.

Organic stains from Algae growth, leaf stains or dirt washed into the pool and left longer than a week. Usually yellow to green.

For further information go to our website www.lochlor.com



THE LO-CHLOR STAIN BUSTERS

SOLUTIONS FOR EVERY STAIN IN EVERY POOL

Oxidation of fibreglass or painted surfaces which give a milky or chalky appearance. Oxidation is not just the result of high Chlorine levels but high Chlorine levels combines with a low pH. The use of Trichlor Tablets which have both a high Chlorine content and a low pH need special care!

Scale deposited on the surfaces of the pool giving a chalky or milky appearance and a sandpaper like feel.

Scale is caused by:

- Water out of balance from too high pH, too high Total Alkalinity, too high a Calcium level or too high T.D.S.
- Use of bore water. See separate information sheet on bore water.

Stain Removal:

Having determined what the stain is you can now set about its removal.

Removing the stain from the walls of the pool is only half the battle. The stain is still there but in solution. It is very common to remove a stain only to have it reappear after three weeks or two months. Before any stain removal the Chlorine level in the pool must not be more than 3.0 PPM. Chlorine will neutralise the stain removers and make them less effective.

In the middle of summer it is sufficient to turn of the salt chlorinator for two days beforehand or not add any Chlorine for two days. In winter Lo-Chlor Chlorine Remover will be necessary. 250 Grams of Lo-Chlor Chlorine Remover will remove 5.0 PPM free Chlorine in 50,000 Litres in two hours. The required amount is added to the skimmer box with the filter valve set on recirculate. Do not use excess Lo-Chlor Chlorine Remover because you will not get a Chlorine reading until all the Chlorine Remover has been neutralised.

Look for the cause:

There is nothing worse than spending time and effort in removing a stain only to have it repeat after three weeks. This is a very common scenario when using something like Citric Acid. The initial dose works well but Chlorine slowly breaks down the Iron/Citric Acid complex and the stain reappears.

Remember to look for the cause. Salt is the biggest cause of stains in pools so it is important the pool owner realises that stains are an ongoing problem in salt pools.

For more information about Stains, Stain Removal and Stain Prevention please refer to our bulletins in the back section of this catalogue.

For further information go to our website www.lochlor.com



CU LATER

REMOVES COPPER STAINING FROM POOL SURFACES

Extra strength 2 PART stain remover specially designed for COPPER STAINING on swimming pool surfaces.

Lo-Chlor CU LATER PART I is a strong oxidiser and is specifically designed to enhance the performance of Lo-Chlor CU LATER PART II.

Lo-Chlor CU LATER PART II contains a special blend of organic & inorganic acids and has been expressly developed to remove COPPER STAINING from swimming pool surfaces.

DIRECTIONS FOR USE:

- Adjust pH to 7.0 and make sure that the chlorine level is below 1ppm before applying products.
- Over the discoloured area where copper stain has occurred, add 1kg of LO-CHLOR CU LATER PART I per 50,000 litres pool water with pump and filter running.
- After a colour change occurs wait 5 minutes then add LO-CHLOR CU LATER PART II
- Add 1 Kg of LO-CHLOR CU LATER PART II per 50,000 litres pool water.
- Product may be sprinkled directly over stained area or evenly distributed around the pool.
- **CAUTION: When using in QUARTZON, COLOURED PEBBLE, COLOURED MARBLE, EXPOSED AGGREGATE finishes or PRINTED VINYL LINERS do not allow direct contact with the pool surface. In these cases it is recommended that you MIX IT IN A BUCKET OF WATER and DISPERSE AROUND THE POOL EVENLY.**
- Run pump and filter for a minimum of 24 hours then resume filtration. LO-CHLOR CU LATER PART II is a strong acid mixture and when added to the pool water it will reduce pool water pH and Total Alkalinity.
- Pool water must be re-balanced following use of LO-CHLOR CU LATER PARTS I and II. Consult your pool professional on re-balancing pool water.

SPOT STAINING

For less severe **SPOT STAINING** we recommend that you proceed with STEPS 1 to 3 then prior to STEP 4, you add a small amount of LO-CHLOR CU LATER PART II to a sock or stocking then attach to the end of a telepole and dangle close to but not directly touching the stain and see if this removes the stain. If no sign of improvement is shown after a few minutes, revert to procedure in STEP 4.

IMPORTANT

After staining has been removed, LO-CHLOR METAL SOLUTION and FILTER AID AND METAL REMOVER should be used to remove dissolved metals from the water and prevent re-staining.

Most COPPER STAINING forms due to INCORRECTLY BALANCED WATER or INFERIOR COPPER BASED ALGAECIDES.



For further information go to our website www.lochlor.com



THE ERASE IT LINE

EASY, SAFE, NO CHEMICALS

Lo-Chlor Chemicals (in conjunction with StainEraser, Inc USA) continue to impress with amazing results with the line of Erase It® cleaners.

Erase It® offers an alternative cleaning solution from other harsh chemicals. Erase It® products are easy to use, safe and produce instant results.

Benefits

- The **Erase It®** products contain no chemicals.
- These products will not scratch or gouge the recommended surfaces.
- They are designed for ease of use by any member of the family.
- Cleanup is a breeze.

The Erase It® product lines include the following:

Erase It® for Concrete

- Will not scratch or gouge recommended surfaces
- Will clean rust, algae, metal, leaf and many more organic and inorganic stains

Erase It® for Calcium

- Actually Works!
- Erase It® grinds the calcium from the tile without scratching while polishing tile

Erase It® for Spas & Vinyl Pools

- Will help restore sun-faded areas to new
- Will help restore dingy vinyl to new
- Will not damage vinyl or patterns

Erase It® for Tile Grout

- Will work on ANY colour grout (sanded, or un-sanded, sealed or un-sealed)
- Removes any surface stain
- Restores grout to its original colour



For further information go to our website www.lochlor.com



IRON STAIN REMOVER

**FOR THE REMOVAL OF IRON STAINING
IDEAL FOR ALL POOL SURFACES**



Removes iron, manganese or cobalt staining. Formerly known as **STAIN REMOVER No.1** or **ULTIMATE STAIN REMOVER** this revamped stain remover is the No.1 CHOICE for the treatment of **IRON** and / or **MANGANESE** stains in all pools. It is also ideal for the treatment of **OSMOSIS** in **FIBREGLASS POOLS**.

Benefits

- **LO-CHLOR IRON STAIN REMOVER** is used to remove iron, manganese or cobalt staining
- It is an excellent black spot treatment for fibre glass pools
- It is very easy and economical to use
- It may be used in all types of pool finishes
- It has no effect on pool water balance

Additional Tips

- Prior to use balance pool water.
- Ensure cyanuric acid is below 90 p.p.m. TDS less than 1200p.p.m. and pH less than 7.6. Chlorine should be zero for best results
- For best results add the product as close as possible to the stained area.
- DO NOT chlorinate for at least 24 hours after use
- DO NOT allow contact with coloured marble pool finishes.
- In this situation, place the product in a sock or stocking attached to the end of a pool broom and hold very close to the affected area without actually touching it.
- The above method is also very good to use if there is just spot, rather than widespread staining in the pool.
- In many instances you will be able to remove the stain(s) by solely adopting this procedure,
- Widespread staining is best treated by distributing the product over the pool surface.
- NEVER add via the skimmer basket or filter
- Immediately after treating with **LO-CHLOR IRON STAIN REMOVER**, **LO-CHLOR METAL SOLUTION** should be added to prevent re-staining.
- This product should then be added again at regular intervals

Size:

1kg

Dosage:

1kg treats 50,000 litres pool water

For further information go to our website www.lochlor.com



METAL SOLUTION

AIDS IN THE PREVENTION OF STAINING



Concentrated METAL SEQUESTERENT That Helps REMOVE & CONTROL Unwanted DISSOLVED METALS From Swimming Pools & Spas.

Benefits

- Sequesters and removes metals from pool water by forming complexes
- This process is known as chelation
- Aides in scale removal and prevention
- Regular use will prevent the deposit of new stains and continue to reduce older metallic stains
- Excellent as a start-up for new and re-surfaced pools

Important Notes

- This product will lower pH and total alkalinity
- When readjusting, bring the pH and total alkalinity up very slowly.

Sizes

- 1L

Dosage

- 1L treats up to 50,000 Litres pool water
- Refer to directions for more detailed dosage rates and instructions

A few more facts about staining...

Organic Stains

Spot dosing with granular chlorine is the easiest way to remove stains. Care should be taken not to bleach the pool surface, particularly when treating a patterned vinyl liner. It is suggested that the chlorine be suspended near the stain (use a synthetic sock or panty hose).

Metal Stains

This is a very complex subject. Metal stains are normally caused by dissolved iron or copper. Iron stains appear as a brown or rust coloured discoloration. Copper stains appear as blue, gray or black discoloration. Iron Staining Occurs quite often in fibreglass pools. Traditional methods of treatment have included addition of various organic acids. These tend to alter the water balance significantly and may affect the chlorine reading on conventional test kits.

For further information go to our website www.lochlor.com



MULTI STAIN REMOVER

TRIPLE ACTION ALL PURPOSE STAIN REMOVER



Will Remove All METALLIC & ORGANIC STAINS From Pool surfaces

Benefits

- Removes iron, copper, manganese and rust stains
- Also removes organic stains such as algae stains, leaf stains and mould in vinyl liners
- Use as an all over treatment for stain removal or as a spot treatment

Dosage

- 1Kg treats up to 50,000 litres pool water

Available Sizes

- 1Kg
- 2Kg
- 5Kg

Important Notes

- Avoid applying Multi-Stain Remover directly to a vinyl liner or painted surface as damage may result to the pool surface
- For vinyl liner spot treatment, place Multi-Stain Remover in sock or panty hose, attach to telescopic pole and suspend over stained area
- For stains throughout a vinyl liner pool, dissolve Multi-Stain Remover in a bucket of water and pour around the perimeter of the pool
- After treatment a reduction in pH and/or total alkalinity may occur. If adding a pH adjuster (sodium bicarbonate) then do so very, very slowly.
- Raising the pH and/or total alkalinity too quickly can cause a cloudy pool as well as re-depositing the stain back on the pool surface
- Be aware that high levels of chlorine will reduce the effectiveness of Multi-Stain Remover. Ideally, reduce the chlorine level to zero before using this product

What happens when a pool interior stains?

All swimming pools interiors are made from chemical compounds of one type or another. Staining problems can start even before we commence filling the pool with water. Water is corrosive so it must be balanced by careful addition of certain chemicals. Added to this we must sanitize the water continually and recheck the balance to ensure the pool interior is not being attacked by the water itself and also to ensure that bathers are swimming in correctly treated water. Staining occurs when insoluble chemical precipitates form in the pool. These may deposit on the pool interior and often they are hard to remove. For our purposes stains fall into two categories: Vegetable stains caused by falling leaves and other plant matter and metal stains caused by dissolved metals in the pool water.

For further information go to our website www.lochlor.com



SALT STAIN REMOVER

FOR THE REMOVAL OF BROWN IRON STAINS



Anhydrous blend of Citric acid and other inert ingredients

Features & Benefits

- Removes stains caused by iron in swimming pools
- Can be used on all surfaces
- Ideal for pools where salt stains are common

Sizes

- 1Kg

Dosage and application

- 1Kg treats 50,000 Litres pool water

Tips from the stain experts...

Iron and Manganese stain removal

- Remove Chlorine and ensure pH is 7.2 to 7.6.
- Add 1 Kg of Lo-Chlor Salt Stain Remover, by sprinkling around the outside of the pool.
- Filter as normal.
- The stain should be gone within twelve hours.
- If in the unlikely event this does not remove all the stain, repeat process
- When the stain is gone, add **1 Litre of Lo-Chlor Metal Solution**.
- Do not Superchlorinate for 10 days after adding Metal solution, or the stain will return immediately.
- It takes about 10 days to 2 weeks for Metal Solution to get rid of a stain.
- If the stain was severe it may be necessary, after stain removal, to adjust pH to 7.8 to 8.0 and add **1 Litre Lo-Chlor Maxi Flocc Plus**.
- Making the pool alkaline and then floccing will remove about 70% of the dissolved metals.
- Leave overnight and then vacuum to waste.
- Balance the water and then add 1 Litre of Lo-Chlor Metal Solution.

For a salt water pool this treatment may need to be repeated every six months!

For further information go to our website www.lochlor.com



STAIN & SCALE ATTACK

REMOVES CALCIUM DEPOSITS FROM POOL SURFACES

A two part pack which attacks calcium scale in swimming pools

Two highly concentrated formulations from Lo-Chlor Chemicals which combine to form a concentrated compound of organic acids and chelating agents in the fight against Calcium Scale in swimming pools.

Features & Benefits:

- Concentrated calcium scale remover
- Can also be used as an effective copper stain remover
- Lo-Chlor Stain & Scale Attack works best at pH 7.0.
- Make sure the Chlorine level is below 1.0 p.p.m.
- High chlorine levels will neutralise Scale Attack
- Lo-Chlor Scale Attack works very slowly. Advise the pool owner it will take up to 6 weeks before results are sometimes seen
- Run pump, filter and Chlorinator, as normal
- Do not sprinkle onto pool surface.
- Must ALWAYS be mixed in a bucket of water first

Sizes:

2 x 1Kg Pack (Treats up to 50,000L water)

Dosage:

- Add 1Kg Stain & Scale Attack Part I to bucket of water and mix until dissolved
- Then add 1Kg Stain & Scale Attack Part II to the same solution
- Once mixed thoroughly pour around perimeter of pool

A few facts from the professionals...

After the solution is mixed thoroughly try to pour over as great an area as possible. Immediately after the addition of Stain & Scale Attack the pool will go cloudy. This cloudiness should disappear within 5-10 minutes

Allow to filter for at least 24 hours after application.

Re balance pool after 5-7 days.

Allow at least 4-6 weeks before you can expect to see any results.

To prevent the build up of new calcium scale in swimming pools add

Lo-Chlor Scale Defence at a rate of 5L per 50,000L



For further information go to our website www.lochlor.com



SPOTAWAY

FOR THE REMOVAL OF OSMOSIS BLACK SPOTS ON FIBREGLASS POOLS



For The Removal Of **BLACK SPOTS** IN FIBREGLASS POOLS
Otherwise known as **OSMOSIS**

Features & Benefits

- Will remove most stains from fibreglass pools
- Particularly effective treatment for **osmosis**
- Effective in removing stains and deposits caused by calcium, copper and iron.
- Effective in eliminating what appear as black spots in fibreglass pools
- **The black spot we are describing should NOT be confused with Black Spot Algae**
- **This black spot is ONLY found in fibreglass pools**
- It is a reaction in fibreglass pools which produces a cobalt hydroxide accretion on the fibreglass
- This black spot may effectively be removed by the addition of **Lo-Chlor Spotaway**

Sizes

- 4Kg

Dosage and application

- 4Kg treats 50,000 Litres pool water

Tips from the stain experts...

Black Spot removal in fibreglass Pools:

- Remove Chlorine free available chlorine from pool water.
- Add 4 Kg of Lo-Chlor Spotaway and leave overnight or up to 4 - 7 days.
- Balance water and Superchlorinate.
- After 24 hours add 1 Litre of Lo-Chlor Metal Solution.
- Note. This treatment removes the visible Black Spot but does not stop the osmosis which caused it.
- **The Black Spots will reappear after three to six months.**

For further information go to our website www.lochlor.com



STAIN & SCALE DEFENCE

REDUCES & ELIMINATES CALCIUM BUILD UP ON
POOL SURFACES AND SALT WATER CHLORINATOR CELLS

Ideal for QUARTZON & EXPOSED AGGREGATE FINISHES

Benefits

- **Lo-Chlor Stain & Scale Defence** will reduce and soften the build up of scale on swimming pool surfaces.
- It will also **limit the build up of calcium scale on salt chlorinator cells** and will soften any deposits, making them so much easier to clean.
- It will greatly improve the efficiency of your salt water chlorinator

Important Notes

- Backwash filter before using.
- Scale in swimming pools may differ from scale seen in other situations.
- Whilst scale has been well documented as the build up on the pool surface of insoluble salts of calcium and magnesium (carbonates and sulphates) little attention has been given to phosphates.
- The role of phosphates in swimming pools is not well understood. Calcium phosphate scale is very insoluble and difficult to remove. Far better to identify higher phosphate levels and then lower the phosphate level before difficult to remove scale forms on the pool surface.
- First test for phosphate levels using one of our test kits if you choose to.
- If the level is in excess of 0.2 ppm. it should be reduced by using **Lo-Chlor Starver® M**.
- If the level exceeds 1.5 ppm then the pool should first be treated with **Lo-Chlor Starver® X** and then treated with **Lo-Chlor Starver® M**
- Once the phosphate is at an acceptable level (less than 0.2 ppm.) then **Lo-Chlor Stain & Scale Defence** should be added.

Sizes

- 5L

Dosage rates

- Initial dose: 5L per 50,000 Litres pool water
- Maintenance Dose: 1L per 50,000 litres pool water every 2 months



For further information go to our website www.lochlor.com





WELCOME TO THE WORLD OF SPA CARE

We know that you have purchased your spa or hot tub with the sole aim of being able to relax and laze in and, equally as important, spend as little time as possible on its upkeep.

Bearing this in mind, we have tried to put together for you a simple and easy to follow guide on how to keep your investment in both a healthy and pristine condition with the minimum of time, effort and expense.



What are the 2 main things that are needed to maintain a healthy and sparkling spa or hot tub?

1. A good and well-maintained filtration system
2. The appropriate specialised spa and hot tub chemicals

Why you need a good and well-maintained filtration system

The importance of good filtration cannot be stressed enough. A good filtration system is the number 1 factor in your quest to obtain healthy and sparkling water.

Good filtration will help keep the water healthy and clean as well as reducing the amount of time, effort and money you will need to spend on maintaining it.

A poor filtration system will make your spa or hot tub water difficult to manage and will often result in having to drain it thus causing you extra financial and labour costs as well as being unable to enjoy using it whilst doing so.

However, it doesn't matter how good and efficient your filtration system is, but nothing will stop bacteria and grime from getting into your spa or hot tub.

It could come from outside sources such as being blown in by the wind or internally from the bodies of bathers in it. Either way, at times, bacteria and grime are going to make their way into your spa or hot tub water.

And this is where Spa Care's range of specialised chemicals for spas and hot tubs comes into the picture to assist you.

Why you need to use specialised chemicals for spas and hot tubs

Here's a question (and answer) for you.

Do you know that, on average, bathers lose over half a litre of body fluid every hour that they sit in a spa or hot tub?

If you have a few bathers in the water simultaneously that is an awful lot of body fats etc. being released into the water.

If you couple this with the fact the temperature of the water in spas and hot tubs necessitate specific chemical care, you'll appreciate that both diligence and the appropriate chemicals are required to maintain it in a healthy and sparkling condition.



Which are the chemicals you need to use in a spa or hot tub?

There are a number that should be used regularly at different intervals

Daily (or after each use)

Spa Care Sanitiser – add details later

Alkalinity & pH Increaser increases Total Alkalinity and pH in spa and hot tub water. The lack of buffering that occurs if the Total Alkalinity is too low will cause the pH to fluctuate significantly. Water low in Total Alkalinity can also corrode equipment, etch some spa surfaces, cause skin and eye irritation in bathers and excessive chlorine usage.

pH & Alkalinity Reducer lowers the pH and Total Alkalinity of spa and hot tub water. Water high in pH and /or Total Alkalinity can corrode equipment, cause scale formation and metal staining, irritate skin and eyes of bathers and reduce the killing ability of chlorine over algae and bacteria.

- pH should be maintained in the range of 7.2 – 7.6.
- Total Alkalinity should be maintained between 125ppm-150ppm.
- It is recommended that your spa water is tested prior to adding pH & Alkalinity Reducer/ Alkalinity & pH Increaser
- DO NOT add more than 25 grams of pH & Alkalinity Reducer per 1000 Litres of water at any one time.
- Always adjust the Total Alkalinity before adjusting the pH.

WEEKLY

- Check your Total Hardness levels – add Calcium Hardness Enhancer as required
- Add a non-chlorine shock treatment using Rapid Shock
- Clean your filter cartridge using Instant Filter Klenz

Calcium Hardness Enhancer increases the Calcium Hardness level in spa & hot tub water. Water which is low in calcium can corrode equipment, etch concrete and grouted surface, and provide an environment favourable to algal growth. The Calcium Hardness level of a spa and hot tub should always be maintained between 200 and 275 ppm for concrete and tiled spas and hot tubs, and between 175 and 225 ppm for other surfaces. Use a test kit to measure calcium hardness.

Rapid Shock is a Non-Chlorine Shock Treatment for spas & hot tubs. It is a highly concentrated, fast dissolving oxygen compound that reduces and eliminates combined chlorine levels. It is very fast acting, and a spa or hot tub may be used only 15 minutes after dosing. Oxidising your spa or hot tub weekly destroys odours and wastes that are missed during weekly sanitation. It increases the bather comfort and restores the sparkle to the water. An extra dose is always recommended after a heavy bather load

Instant Filter Klenz quickly removes debris, oils, body fats and dirt utilising a unique “No Soak” formula. This product is suitable for use with all cartridge filters - just **spray on** and **hose off**



FORTNIGHTLY

- Clarify the water using Crystal Clear

Crystal Clear is fast acting, versatile natural clarifier that is both NON-TOXIC and

BIODEGRADABLE. Its unique formulation is specifically designed to

- Clear cloudy water and make it sparkle
- Aid in removal of fats, oils and suntan lotion
- Aid in removal of dissolved metals and dead algae spores.
- Aid in prevention of scum line

When there is a heavy bather load, an extra dose is advised as there will be additional body fats in the water which could cause cloudiness and foaming



MONTHLY

- Remove BIO-FILM from the water and system using Bio-Klenz

Bio-Klenz is a fast-acting **BIO-CLEANER** especially developed for the “hot water” environments of Spa Pools and Hot Tubs to remove **BIO-FILM** from pipework, filters and spa surfaces. Used **MONTHLY**, it will protect your Spa Pool or Hot Tub all year round. It will keep your water in the freshest, cleanest and highest quality condition that you’ve ever experienced.

Bio-Klenz should reduce your overall maintenance chemical costs and increase the clarity and brilliance of your water. It also enhances your filter’s ability to filter finer particulates and contaminants.

By using **Bio-Klenz** regularly each **MONTH** you will

- Save money and maintenance time
- Use less sanitiser
- Enjoy clearer water which feels both soft and silky
- Have better looking and fresher smelling water
- Operate pump(s) less per day, week or month
- Find heater element(s) will stay cleaner

3 MONTHLY

- Drain spa or hot tub and clean internal pipe-work using System Klenz

System Klenz is a concentrated cleaner for internal pipe-work in Spa Pools, Hot Tubs and Spa Baths. It also removes calcium, grime and organic build up. Whenever draining a spa pool or hot tub we recommend that, prior to doing so, System Klenz is used to ensure that all harboured body fats (including BIO-FILMS) are removed from the pipe work and associated systems.

- For NORMAL use - treatment should be carried out at least every 12 weeks.
- For HEAVY use - treatment should be carried out every 6 weeks.

As Required

- Seal spa surface using Polish & Protect
- Restore and protect vinyl spa and hot tub covers using Vinyl Restore & Protect
- Remove excess foam from water using No More Foam
- Fix minor leaks in surface or pipework using Leak Sealer
- Lower chlorine levels using Chlorine Neutraliser





Polish & Protect is an extremely high strength polisher for Spas & Hot Tubs. It seals, polishes and protects all acrylic, vinyl and rubber surfaces. This gives protection against moisture, harsh

chemicals, and UV rays. Polish & Protect can also be used on the headrests as well as to protect many other surfaces such as garden furniture, car interiors and exteriors, household work surfaces, stainless steel and uPVC (can aid colour restoration on uPVC).

Vinyl Restore and Protect is an exceptional product that has been specially formulated to both restore and protect Spa & Hot Tub vinyl covers. It is based on proven technologies in the marine industry. It has a unique formulation that is Water Repellent and hinders the penetration of water by giving your cover its own "rain coat". It has Built in SPF Protection which prevents against fading from UV rays.

No More Foam is a fast-acting anti-foam for eliminating unsightly foam in spas and hot tubs. It should only be used when foam is present.

Leak Sealer is a concentrated formulation to seal minor leaks in spas and hot tubs. It can be used for leaks in either the shell and/or internal plumbing system.

Chlorine Neutraliser uses a highly concentrated formulation to lower bromine and chlorine levels in spas and hot tubs.