



CHEMICALS GUIDE

Every swimming pool in Thailand pool has a different requirement. Recommendations, suggestions or statements made here are intended for the assistance of our customers. They are based upon decades of proven best practice for pools, regional and/or state laws, plus our 45 years experience and judgement; they must not however be regarded as amounting to a legal warranty or as involving any liability on our part and must be read in conjunction with, and subject to, our conditions of sale.



At SwimmingPoolsThailand we sell only high quality chemicals which we either purchase or import direct from the original manufacturer or produce ourselves under our 'Kleer' brand. This enables us to offer pool products at much lower prices than those of multiple layers of importers and distributors, rebranders, or other online stores.

Shelf life: Our chemicals, dry or liquid, will keep for about 12 months. Don't order more than you need and always store in a cool, dry place and close the lids firmly after use - apart from shipping damage, chemicals are not covered by warranties; we cannot accept guarantee claims for products that have been allowed to get damp or too hot, left open, or stored too long.

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ALGICIDES

Green algae turns water light green. If untreated, the water will soon become a thick, dark green soup. It is the most common form of algae. It can happen very quickly but is not difficult to treat. Generally the correct level of chlorine will prevent green algae, but if it recurs often, use regular dosing of GreenKleer. Algicides will not remove the green colour, the dead algae must be removed with a flocculant to clarify the water. Some of our products are a combined algicide-Flocculant. See *GreenKleer* and *AquaKleer*.

Mustard and *Red Algae* are a slime that sticks to the walls, steps, and ladders. They are more rare than most strains but quite difficult to treat. See *VerdiKleer*.

Black Algae is quite common. It grows in the grout and corners of the pool and is very difficult to destroy. If left untreated for a long time, the pool should be emptied and the algae treated locally and thoroughly removed with a wire brush. In some cases, regrouting will be necessary. See *AlgiKleer* and *Black Algaetrine*.

Another alternative for killing algae is to instal a UV unit

Ultraviolet light has a photo oxidation effect that destroys chloramines & other toxic by-products of chlorine, without adding additional chemical products. Fitting a UV treatment to your pool will also kill all algae instantly when it is passed through the UV treatment plant but will not prevent algae and slime growth on the sides and surfaces of the pool.

UV systems are also an excellent alternative to sanitation by chlorine. See our [UV](#) sanitisers

[GREENKLEER](#) algicide An economical and highly effective non-foaming algicide. Immediately kills green algae. Sufficient for up to 2 months treatment for pools up to 40,000 litres. Swim in the pool 10 minutes after treatment.

[AlgiKleer](#) algicide for black algae AlgiKleer 3.78 litres (1 gal US) . Algicide for Black Algae. Works best on its own - do not mix with other SPTpools chemicals or algicides.

[VERDIKLEER](#) for Mustard algae and most other strains.

[Black Algaetrine](#) Commercial strength for large and commercial pools. A unique, patented combination of algaecides specially formulated to control black algae and other resistant strains.

[VERDIKLEER](#) <http://swimmingpoolsthailand.com/en/algicides-phosphate-remover/578-swimtrine-gal.html>
Commercial strength. Effectively and economically kills algae especially mustard and green algae and prevents regrowth.

[Copper sulfate](#) CRYSTALS a very effective algaecide used in pools to kill and prevent all strains of algae especially black algae which is not controlled by normal levels of Chlorine

Copper usage can, however, cause stain formation. Over time, and if over-dosed, soluble copper salts can precipitate from pool water and deposit on pool walls, turning the grout or plaster blue.

ALGICIDES with FLOCCULANT (clarifier)

After using an algicide-flocculant, the powder that settles on the pool floor must be vacuumed followed by a backwash and rinse of the filter. Combined algicide-flocculant is ideal for domestic and smaller pool. For larger pools, use separate algicides and flocculants.

[AquaKleer](#) algicide + clarifier for D.E. combined algicide + water clarifier for D.E. filtration systems. Eliminates green algae and increases water clarity.

[FilterKleer](#) swimming pool filter cleaner and degreaser For cleaning, regenerating, and rinsing sand, Zelbrite, glassmedia, D.E. grid elements, and cartridge filters.

FLOCCULANTS (water clarifiers)

Flocculants are products that clarify the water. They are available as powders and liquids. They coagulate microscopic particles into larger particles that can be caught in the filter. Clarifiers should be left to work over night. The pool floor should then be vacuumed followed by a backwash and rinse of the filter.

(NOTE: Some clarifiers cannot be used with cartridge or D.E. filters. For these filter types see [AquaKleer](#) algicide + clarifier for D.E. combined algicide + water clarifier for D.E. filtration systems. Eliminates green algae and increases water clarity.)

[KristalKleer](#) liquid water clarifier. Excellent quality - super low price. Recommended for domestic pools. Safe to use. Not for use with cartridge or D.E. filtration systems.

[KristalKleer-PLUS](#) liquid water clarifier. Excellent quality - super low price. Recommended for domestic pools. Safe to use. Not for use with cartridge or D.E. filtration systems.

[FlocculantPLUS](#) premium water clarifier Powder. For very rapidly clarifying cloudy, green, or very dirty water. Not suitable for use with cartridge or diatomaceous earth filters. Safe to use. Not for use with cartridge or D.E. filtration systems.

[Flocculant](#) (water clarifier) Granules. For rapidly clarifying cloudy or very dirty water. Not suitable for use with cartridge or diatomaceous earth filters. Safe to use. Not for use with cartridge or D.E. filtration systems.

PH REGULATORS

In order for any kind of pool sanitation system to work, the water pH must be between 7.2 and 7.6. The pH level indicates the relative acidity or alkalinity of your pool water. pH is measured on a scale from 0 (strong acid) to 14 (strong alkaline) and pH neutral is 7.0. In pools a slightly alkaline level between 7.2 & 7.6 is ideal because this range is the most comfortable for bathing, provides optimum use of free chlorine and provides water that is not corrosive or scale forming. By comparison, sea water is about 8.1. The pH of the water in pools in Thailand is usually too high and needs the addition of *pH Minus*.

If the pH is too high, add pH Minus (dry acid) 10g per day per 1000-litres until the pH has decreased to between 7.2 and 7.6. Systems also exist for fully automated pH monitoring and dosing. They inject hydrochloric (muriatic) acid into the water.

If the pH is too low, add pH Plus (soda ash) 10g per day per 1000-litres until the pH has increased to between 7.2 and 7.6.

[pH Minus](#) Premium grade granular pH reducer (made in Germany). Contains NaHSO_4 , a dry granular product that can be safely shipped and stored. Best for manual addition to pool water. Keep out of reach of children

[pH Plus](#) pH raiser. No fumes, no storage problems. Supplied in plastic tub. Contains Sodium Carbonate (Na_2CO_3). Harmless if swallowed, it is also an ingredient in toothpaste and sherbet powder.



A typical pH and chlorine test kit



A hand-held digital pH meter



A typical programmable dosing pump for liquid chemicals



The Emaux SSC-one salt water chlorinator with built-in automatic pH monitoring and dosing system

HARDNESS and ALKALINITY

The ideal level for Total Alkalinity is between 80 and 140 parts per million (ppm). Total Alkalinity is a measure of water's resistance to change in pH – TA is the amount of alkali (not to be confused with alkaline) in the form of bicarbonates, carbonates and hydroxides present in the pool water. TA affects and controls the pH.

The water hardness should be maintained at a minimum level of 200ppm. Water that is too hard will leave limescale deposit on the tiles and fixtures and fitting and cause corrosion. It can also damage technical equipment such as salt water chlorinator cells, and can also build up inside the pump. Water that is too soft will leach calcium out the tile grout and eat the grout away.

An excessive amount of pool chemicals can cause your water to be cloudy. That includes: high pH, high alkalinity, high chlorine or other sanitizers, and high calcium hardness.

Prolonged untreated water will cause the tile adhesive to dissolve, leaving loose tiles. To reduce some of the water hardness, use a flocculant to rid the pool of free-floating calcium carbonate. Vacuum the walls and floors to remove calcium carbonate particles. Backwash or clean out your pump filter.

The only way to fully reduce water hardness is to drain some of the water and dilute the existing pool water with fresh water. The alternative is to invest in water softening equipment (not sold by SwimmingPoolsThailand)

[Sodium bicarbonate](#) Sodium bicarbonate (bicarbonate of soda, baking soda), NaHCO_3 , will raise the total alkalinity without excessively raising the pH. Not to be confused with sodium carbonate (soda ash) pH raiser.

[Calcium chloride](#), FLAKES, will increase the water hardness.

OTHER CHEMICALS

[PurePool](#) - Pure Pool by Puresan Chlorine-free pool liquid sanitation system. A revolutionary chlorine-free swimming pool sanitiser designed for easy cleaning and maintenance of both domestic and commercial pools. For large pools, the liquid can be dispensed from a 5 Litre canister by a [timed chemical pump](#).

[SteriKleer](#) disinfectant is essential for commercial and heavily used private pools. Disinfectant, fungicide, bactericide, and deodorant. Removes dirt, grime, grease and oils, preventing odour, and kills germs. Ideal for use on pool walls, steps, slides, spas, decks, patios, showers, and toilets. Kills many bacteria including *Staphylococcus aureus* and *Salmonella typhosa*.

[CheliKleer](#) stain & scale remover. Prevents and removes stains and scale by chelating minerals such as iron, calcium, and manganese.

[STAINKLEER](#) sprinkle **StainKleer** evenly around the water. Use 500gr of **StainKleer** for every 40m³ (40,000 litres) of water. See [product page](#) for full details.

NOTE: **CheliKleer** and **StainKleer** work particularly well with each other.

CHLORINE PRODUCTS

Please read our extensive [Guide to Using Chlorine](#). Download it from any chlorine product page on our web site. The guide describes different types of chlorine and clearly explains the correct dose for your pool as well as how to choose and use various methods for manual and automatic dosing.

[Pool Salt](#) TRS (Blue bag) for salt water chlorinators.

Using other salt (red bag), rock salt, sea salt, or table salt will shorten the life of the electrode. Electrodes are very expensive to replace.



We provide pool water correctional and maintenance services, on-site repairs, and the installation of new equipment purchased through our online store or through our regional shops and agents



For further questions about using our chemicals, don't hesitate to mail us at sales@swimmingpoolsthailand.com

or call us at, SwimmingPoolsThailand, we speak English, French, German, Swedish, and Thai

093 337 0581 English
093 337 0549 Français, Deutsch
062 320 8600 Svenska



