

**COMMON SWIMMING POOL CHEMICAL COMPOUNDS**  
**(THEIR USES, EFFECT ON WATER, SAFETY, APPLICATION)**

Commonly used swimming pool & spa water treatment chemical compounds:  
Their use and application covering effect on water balance and their overall safety.

**Sanitising / Disinfection.**  
**Halogens (Chlorine, Bromine & Iodines)**

- Surex 1000** Calcium Hypochlorite ('dry' or 'shock' chlorine 65/70% a.c.)  
**Form:** Granular & tablet, unstable, pH high.  
**Safety:** Very Hazardous, extreme care in handling & application can induce spontaneous combustion, class 5.1. Not suitable for domestic application.
- Surex 2000** Sodium Dichloroisocyanurate Acid Dehydrate, 55/56% a.c.  
**Form:** Granular or tablet, stable, pH slightly low.  
**Safety:** Not restricted (NOT HAZARDOUS) most commonly used domestic compound, quick dissolving.
- Surex 3000** Trichloro Isocyanuric Acid Tablets, 91% a.c.  
**Form:** Granular & tablet, stable, pH very low.  
**Safety:** Hazardous, care in handling & application, class 5.1, most commonly used domestic.  
**Application:** Tablet: must be used in specified dispensers, slow dissolving. GRANULAR APPLICATION NOT RECOMMENDED IN DOMESTIC USE.
- Surex 4000** Lithium Hypochlorite, 40% a.c.  
**Form:** Quick dissolving granule, unstable, pH slightly high.  
**Safety:** The only chlorine that cannot support combustion in solid format or catch fire, class 5.1, the 'Crème de la Crème' of chlorines.
- Surex 'Surchlor'** Sodium Hypochlorite Solution 14/15% a.c. for manual dosing.  
**Voxsan 'A'** Sodium Hypochlorite Solution 10/11.5% a.c. for automatic dosing.  
**Form:** Liquid only, unstable, very high pH, badly balanced compound, dissipates very quickly, used mainly commercially due to cheapness.
- Surex 5000** Iso-Cyanuric Acid, (Conditioner/Stabiliser)  
**Form:** Granular or powder, Very slow dissolving.  
**Safety:** Safe, non hazardous.  
**Application:** To 'hold' unstable chlorine donors in pool water from dissipation from UV 'pull out'.
- Surex 6000** Di-Halo Bromine, (Bromo Chloro Dimethyl Hydantoin)  
**Form:** Slow dissolving tablet, stable, low pH, (50% less effective than chlorine), expensive.  
**Safety:** Hazardous, class 5.1.  
**Application:** Should be applied via dispenser unit, generally used in spas.

## **CONTINUED:**

**Surex Suradyne:** Idophor Solution.  
**Form:** Liquid, stable, low pH.  
**Safety:** Hazardous in concentration.  
**Application:** Used as footbath preparation, stains colour brown.

## **Sanitising / Disinfection.**

### **Non Chlorines:**

**Surex 002:** A Peroxygen ( new age chemical disinfection)  
**Form:** Quick dissolving granule or tablet, stable, pH low.  
**Safety:** Non hazardous, environmentally friendly, no smell, no taste, can be used in conjunction with all chlorines, class 8.  
**Application:** For use in pool, spa & whirlpool bath Surex International/Voxsan are particularly proud to lead the way with this compound.

## **PH & Total Alkalinity Control (hardness & softness of water)**

**Surex Minus:** Sodium Bisulphate, Granular Acid.  
**Form:** Quick dissolving granule or tablet, very low pH.  
**Safety:** Care in handling is required being an acid.  
**Application:** To lower both pH & Total Alkalinity.

**Surex Plus:** Sodium Carbonate.  
**Form:** Fine granule, high pH.  
**Safety:** Safe to handle.  
**Application:** To raise pH of water.

**Surex 8000** Sodium Bicarbonate.  
**Form:** Quick dissolving, fine granule, high pH.  
**Safety:** Safe to handle.  
**Application:** To raise total alkalinity of water.

**Surex 002 Plus:** Mixture of Calcium & Magnesium.  
**Form:** Hard slow dissolving granule, high pH.  
**Safety:** Safe to handle, very slow dissolving.  
**Application:** To slowly raise both pH & TA in 'easy application' form, applied into sand filter for slow saturation, example use 5kg per 24" sand filter.

**Surex 9000:** Calcium Chloride.  
**Form:** Slow dissolving hard flake, high pH.  
**Safety:** Safe to handle.  
**Application:** To raise Calcium hardness in water, very slow dissolving.

**CONTINUED:**

**Ancillary Chemicals:**

**Goodbye Green**

**Pool Algaecide:**

Organo Copper Citrate long term algaecide.

**Form:** Liquid form, to assist as 'Back up' to sanitiser efficiency

**Safety:** Safe to handle, maintain copper levels to max' 0.5ppm

**Surex L'Bloc:**

Ultra high Polymetric pool clarifier of great effectivity.

**Form:** Gel form that slowly dissolves from inside pump strainer.

**Safety:** Safe to handle and ecologically acceptable.

**Application:** To clear floating suspended particles in water, clears hazy pool water and assists with green pool clean up.

**Voxsan TLC Paste:** Pool water edge, spa surface & general 'tide mark' cleaner.

**Form:** A paste to allow ease of cleaning.

**Safety:** Safe to handle, a non irritant and environmental acceptable.

**Application:** An easy to use paste that can be washed down back into the pool.

**Filter Cleanse:**

Sulphamic Acid.

**Form:** Granular Acid, low pH.

**Safety:** Care should be taken in its handling, dissolving for application

**Application:** To clean elemental cartridge and Diatomaceous Earth filters.

The above are a selection of the commonly used compounds that are used in swimming pool spa and wetted whirlpool baths.

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Further information on the range of Surex/ Voxsan water treatment compounds can be found on our website:

[www.surex.co.uk](http://www.surex.co.uk)

[www.keyindustries.co.uk](http://www.keyindustries.co.uk)

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