



NICLON

CALCIUM HYPOCHLORITE



TOSOH CORPORATION

Tosoh Corporation was founded in 1935 as a supplier of soda ash, and has since grown to achieve its status as one of Japan's largest and most diversified chemical companies. Tosoh is now a multinational corporation comprised of more than 9,000 people in 19 countries, generating billions in sales annually. As Japan's largest producer of chlorine and caustic soda, Tosoh uses superior process technologies to take advantage of economies of scale. This gives Tosoh a true competitive advantage that is passed on to customers.

NICLON-70

NICLON-70, a brand of calcium hypochlorite ($\text{Ca}(\text{ClO})_2$) is used around the world in keeping everyday modern life clean. Disinfecting and sanitizing are achieved by dissolving calcium hypochlorite in water to produce a chlorine solution.

NICLON-70 is one of our finest achievements with high stability, easy application, and dependable quality at an economical price. These characteristics make NICLON-70 a leading choice for all your disinfecting, sanitizing, and bleaching needs.

NICLON-70 contains a higher percentage of available chlorine

NICLON-70 is more soluble in water and dissolves quickly

NICLON-70 contains a minimal amount of insoluble ingredients

NICLON-70 has a longer storage life

NICLON-70 is more economical

Grades:

NICLON-70G (Granular type, 70% available chlorine)

NICLON-70T (20gram-tablet type, 70% available chlorine)



APPLICATIONS

Recommended levels of chlorine for each application.

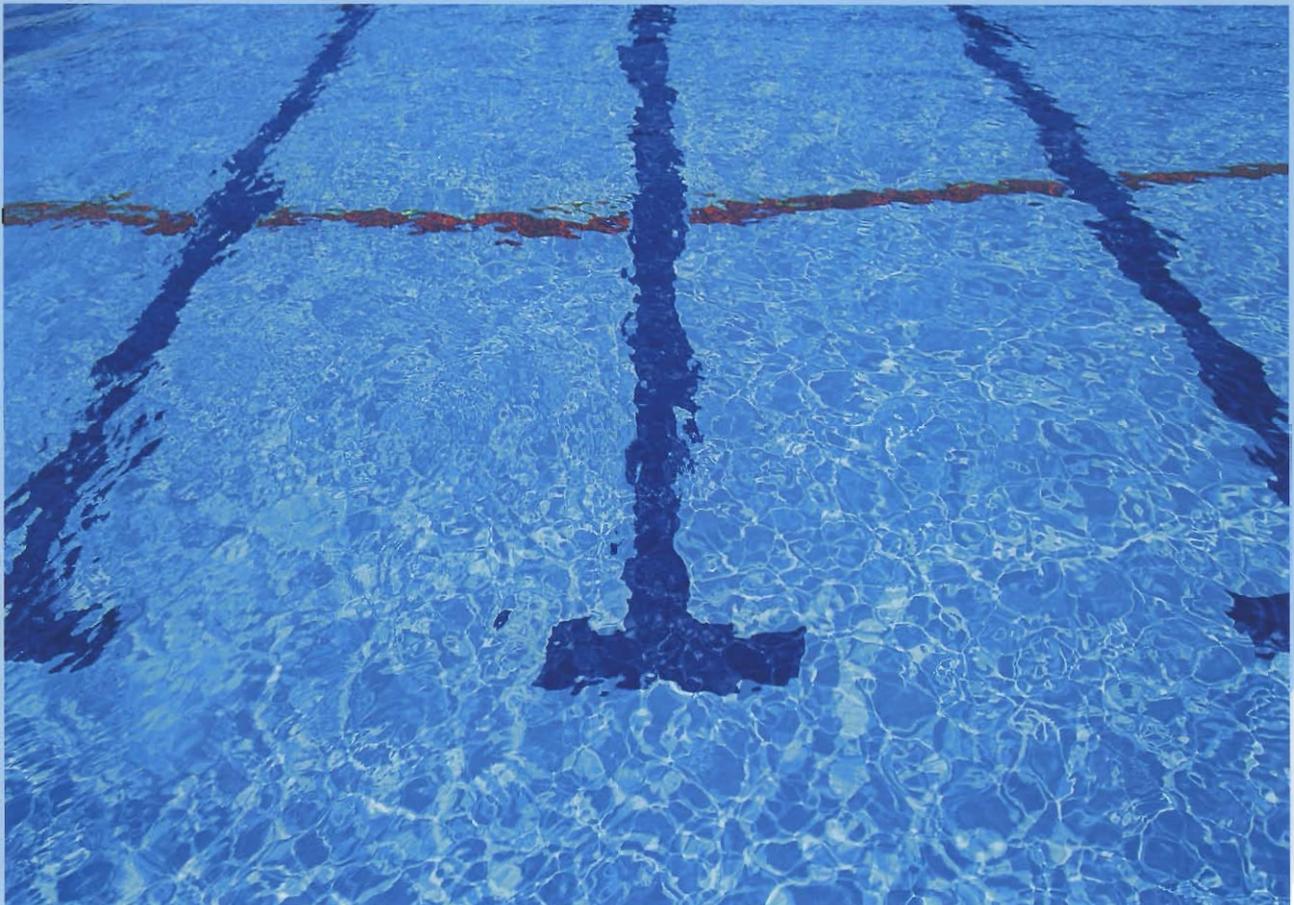
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|---|-------------------------------------|
| • Disinfecting swimming pool water | chlorine level between 0.4-1.0 ppm* |
| • Sterilizing city water | chlorine level of 0.2 ppm |
| • Eliminating algae in reservoirs | chlorine level of 0.5 ppm |
| • Disinfecting and deodorizing drainage | chlorine level of 1 ppm |
| • Disinfecting kitchens in dining halls | solution between 500-1,000 ppm |
| • Sanitizing swimming pools | solution between 1,000-1,500 ppm |

Other industrial uses include:

- Sanitizing water treatment plants and bleaching paper pulp, fiber, and leather dyeing equipment etc.

* "ppm" where used herein means parts of available chlorine per million parts of water.

** Applications and recommended chlorine levels are only examples and approximate values which are given for user's convenience. The recommended chlorine levels are based on standards for use of this product in Japan and may not necessarily apply to use of this product elsewhere.





TOSOH

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STORAGE, HANDLING, AND SAFETY PRECAUTIONS

- NICLON-70 is highly corrosive. Avoid contact with eyes, skin, and clothes. Do not ingest NICLON-70. Ingestion can cause severe injury or death. In case of ingestion, drink plenty of milk or water and immediately consult a doctor. For accidental contact with skin or eyes, immediately flush affected area thoroughly with water. Do not breathe any dust or fumes associated with the storage and use of the product. Wear eye protection, gloves, and protective clothing when using this product.
- As with all chemicals, NICLON-70 should be **kept out of the reach of children**.
- Store NICLON-70 in its original container in a well-ventilated, cool and dry place. Such containers should be tightly closed when not in use. Do not slide or drop any such containers. [Use only a clean, dry scoop made of plastic each time to remove NICLON-70 from its container.]
- Do not expose NICLON-70 to any heat sources (including fire or direct sunlight). Exposure to heat can cause, among other things, the production of hazardous gases.
- Care should be taken to keep NICLON-70 free from any contaminants. Exposure to contaminants (including those listed below) can cause highly corrosive reactions or the production of heat which may result in fire. NICLON-70 should never be brought into contact with oils and fats (including, without limitation, oily fabrics such as cleaning cloths), acids and other flammable materials. NICLON-70 should not be used in combination with any agent except water (including especially, but without limitation, any cyanuric acid-based solutions due to the possibility of the rapid production of chlorine gases or explosion).
- Any solution prepared using NICLON-70 should be used immediately. Do not store any solution.
- NICLON-70, any and all containers used to store NICLON-70 and any effluent resulting from the use of NICLON-70 should each be disposed of properly. **Never dispose of NICLON-70, any such containers or any such effluent without prior appropriate treatment.**

*Note that the above Storage, Handling and Safety Precautions are not comprehensive and any user of the product should follow all instructions and procedures printed on any containers of NICLON-70 or on the Material Safety Data delivered prior to or contemporaneously with delivery of such containers of NICLON-70. Note that the Material Safety Data may be delivered only to the sales agent and any end users should request a copy thereof from such agent.