

÷ TECHNICAL DATA SHEET (TDS) *SODIUM HYPOCHLORITE*

GENERAL INFORMATION

PURICALS Premium Sodium Hypochlorite Solution is a high-quality disinfectant and oxidizing agent widely used in water purification, surface sanitation, and industrial cleaning. With its strong antimicrobial properties and effective bleaching power, it is ideal for disinfecting drinking water, wastewater, and various surfaces in both industrial and municipal applications.

Produced using advanced technology and overseen by experienced professionals, PURICALS products are designed to deliver consistent, safe, and efficient performance in demanding environments.

Applications

✓ Household bleach sold for use in laundering clothes is a 3-6% solution of sodium hypochlorite at the time of manufacture. Strength varies from one formulation to another and gradually decreases with long storage.

✓ A 12% solution is widely used in waterworks for the chlorination of water and a 15% solution is more commonly used for disinfection of wastewater in treatment plants.

✓ It can also be found on store shelves in Daily Sanitizing Sprays, as the sole active ingredient at 0.0095%.

✓ Bleaching agent for rayon pulp and paper, cotton, linen, etc..

Product Specifications

Raw	Property	Specification	Analytical Method
1	Color	Light Yellow	Visual
2	Chlorine (gr/lit)	Min. 110	DENORA CH13
3	Caustic (%wt)	Max. 3	DENORA CH13
4	Fe (ppm)	Max. 10	ASTM D2790

STORAGE INFORMATION

Handling and storage conditions

Warning - sodium hypochlorite solutions must be stored in vented containers, or in containers equipped with adequate relief devices. If venting rate is exceeded by the decomposition rate, swelling or damage to the container may occur.

Bulk storage tanks:

Tank and lining manufacturer's products and processes vary considerably; therefore, selecting an appropriate storage vessel should be given thorough evaluation. Consultation with tank and lining suppliers is recommended.

Rubber Lined Steel:

Tanks of this type are generally custom fabricated for a specific process. They may be any size of shape depending on the needs of the user, but are typically closed vertical or horizontal Cylindrical.

Fiberglass:

The success or failure of this type of tank when used in sodium hypochlorite service depends upon a large number of variables including resin type and additives, type of reinforcement, fabrication technique, storage temperature, environmental exposure and the characteristics of the solution. While many tanks of this type are currently in use, it is advisable to deal only with fabricators having experience with sodium hypochlorite and who are willing to warranty the vessel for the intended applications. Make certain tank has adequate UV (ultra violet) stabilizer or a gel coat outer layer designed for the area of intended use. If possible, locate tank in a shaded area.

DELIVERY

The product is typically supplied in **bulk liquid form**, delivered using **tankers** or **IBC containers** depending on customer requirements.

Upon request, customized packaging or delivery solutions can be arranged to meet specific project or end-user needs.

NOTE

Refer to the SDS for further health, safety and environmental information regarding this product. Information and recommendations in this technical data sheet are based on information believed to be reliable. However, the use of the product is beyond our control, and no guarantee expressed or implied is made as to the effects of such the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility including injury or damage, resulting from misuse of the product as such, or combination with other materials.