



# TECHNICAL DATA SHEET

Product Name

## Sodium Hypochlorite

MVC-TDS-03  
Issue Date : 1/18/23  
Rev. Code : 02  
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### Product Description

Sodium Hypochlorite (NaOCl) is a clear light yellow green liquid, commonly known as bleach. It is prepared by reacting dilute caustic soda solution with gaseous chlorine accompanied by cooling.

### Typical Applications

- Bleaching agent in the textile and pulp and paper industries
- Cleaning and disinfection of drinking water
- Domestic and industrial waste treatment
- Production of modified food starch
- Ore and mineral processing
- Meat and poultry processing

### Product Characteristics

- Disinfectant
- Algacide
- Germicide
- Oxidizer
- Scale and Corrosion Inhibitors
- Antiseptic

### Product Registration

- Sodium Hypochlorite  
Category Code: G4  
NSF Registration No: 151724

### Product Packaging

- Tanker
- Lorry
- HDPE Drum (200L)
- Jug/Carboy (20L)

### General Properties

Appearance	Clear, light yellow green liquid	Vapor Density	1.2 (air = 1)
Odor	Pungent, chlorine-like odor	Specific Gravity	1.108 min. at 30°C
Odor Threshold	0.9 ppm	Solubility	Completely soluble (water)
pH	> 12	Decomposition Temperature	40°C
Freezing Point	< -10 °C	Viscosity	2.6 mPas at 20°C
Boiling Point /Range	105 °C , approx.	Concentration as NaOCl	7.10% min.
Vapor Pressure	20 mmHg at 20°C		

### Product Technical Assistance

For technical assistance or further information on this product, please contact MVC Technical Services department at the address or telephone number specified below.

### Process Flow



Caustic soda is diluted with demineralized water to attain 10-11% concentration. Gaseous chlorine is then added in the chlorination process producing sodium hypochlorite. The solution undergoes a series of filtration process to remove any contaminants. Finally, it is stored in the storage tanks ready for distribution.



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#### Storage

- Store in a well-ventilated place.
- Protect from sunlight.
- Keep container tightly closed.
- Store locked up.

#### Safety Precautions

- Store in corrosion-resistant container.
- Keep container closed when not in use.
- Emergency shower and eyewash facility should be in close proximity to where sodium hypochlorite solution is handled.
- Avoid breathing vapors.
- Avoid contact with eyes, skin and clothing.
- Wash thoroughly after handling.
- Wear goggles and face shield, chemical resistant gloves, boots and apron or chemical suit.
- Do not allow contact with organic materials such as rags, wood fibers, paper, debris, or with reducing chemicals except under controlled conditions.
- Do not discard indiscriminately. A spontaneous combustion fire could result due to the sodium chlorate generated from decomposition.
- Do not mix with acids, ammonia, heavy metals, ethers or reducing agents. Doing so may release hazardous gases.

#### Related Documents

- The latest version of this document will be available at our website, or can be obtained from the MVC Technical Services department.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
  - ❖ Safety Data Sheet

#### Disclaimer

- The product can be used only for the application as specified hereabove.
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.
- We make no warranties which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.
- It is the customer's responsibility to inspect and test the products in order to satisfy itself as to its suitability for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of the products.
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