

Doc. # **NaOCl-TDS-03**Rev. # **00**Effective Date: **01.01.2026****TITLE: TECHNICAL DATA SHEET (TDS) FOR SODIUM HYPOCHLORITE**

SECTION ①: PRODUCT INFORMATION						
Product Name	CAS #	Chemical Formula	Molar Mass	Boiling Point	Melting Point	Hazard Pictogram
Sodium Hypochlorite	7681-52-9	NaOCl	74.44 g/mol	101°C	18°C	

SECTION ②: SPECIFICATIONS				
Appearance	Suspension	Alkalinity as NaOH % w/v	Available Chlorine % w/v	Iron (Fe) ppm
Greenish Yellowish Liquid	NIL	Min. 0.8	Min. 19.5	Max. 5.0

SECTION ③: APPLICATIONS	SECTION ⑤: HANDLING AND SAFETY MEASURES
<ul style="list-style-type: none"> It is used as a bleaching agent in the paper and textile industries. It is used as an oxidizing and chlorinating agent in the chemical industry. It is used for disinfection in water and swimming pool water and also used for waste water treatment. It is used as an antimicrobial pesticide. It is used for odor control. It is used in pharmaceutical, metal and printing industries. 	<p>Sodium hypochlorite is considered a strong oxidizer. Products of the oxidation reactions are corrosive.</p> <ul style="list-style-type: none"> Solutions (more than 40% weight) can burn skin and cause eye damage, particularly when used in concentrated forms. In case of contact with acids it generates chlorine gas, therefore it should not be stored and transported together with acids. Its strong oxidizing nature and alkali content causes swelling and slipperiness of the skin, Prolonged exposure leads to changes similar to burns. In case of eye contact it instantly causes inflammation of the cornea, ophthalmic and even blindness. During handling it is mandatory to wear proper protective clothing, safety goggles and rubber gloves. The containers should be kept tightly closed and in a cool ventilated area.

SECTION ④: HAZARD CLASSIFICATION	SECTION ⑥: PACKING AND TRANSPORT INFORMATION
<p>According to ADR and RID sodium hypochlorite is classified in Class 8 (corrosive substance) on the basis of its main hazardous properties. Hypochlorite Solution, UN: 1791, Packing Group: III</p> <p>All further measures to be taken related to transportation can be determined in the knowledge of its hazard classification.</p>	<p>Sodium hypochlorite is delivered in rubber-lined steel tankers (Capacity: 10 – 30 MT) and HDPE carboys which are appropriate from the aspect of corrosion protection.</p>