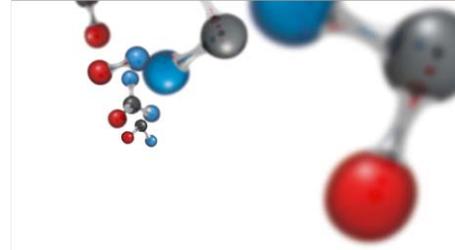


TECHNICAL DATA SHEET (TDS)

SODIUM-HYPOCHLORITE SOLUTION



- **Chemical formula:** NaOCl+H₂O
- **Other name of material:** hypo, according to ADR/RID: sodium-hypochlorite solution
- **Molecular mass:** 74.5
- **Hazard identification number:** 80
- **U.N. number:** 1791
- **Appearance:** Greenish yellow to pale brown aqueous solution with odour of chlorine

SPECIFICATIONS

Tested properties			Test method
Active chlorine content	min.	160 g/l	MSZ 9793:1968
NaOH content	max.	1% (m/m) / 12.4 g/l	MFF-419*
Na ₂ CO ₃ content	max.	1% (m/m) / 12.4 g/l	MFF-419*
Iron (Fe) content	max.	0.001% (m/m) / 0.0124 g/l	MSZ 9793:1968

* BorsodChem own method

APPLICATION AREAS

It is used as a bleaching agent in the paper and textile industries, as an oxidising and chlorinating agent in the chemical industry as well as for disinfection in water and waste water treatment. The number of the permission for the application as a disinfectant in drinking and swimming pool water is OTH/4865-2/2008

HAZARD CLASSIFICATION

According to ADR and RID, sodium hypochlorite is classified in Class 8 (corrosive substances) on the basis of its major hazardous properties. All further measures to be taken related to transportation can be determined based on the above hazard classification.

PACKAGING AND TRANSPORT

Sodium hypochlorite is packed and delivered in hard rubberlined steel tankers as well as in packaging devices in compliance with ADR regulations.

STORAGE

It can be stored in rubber-lined steel or plastic (PVC, fibreglass polyester, polyethylene) tanks. The active ingredient content (active chlorine content) of the solution, due to the decomposition of hypo, decreases in time, even during delivery. Sunlight, rising temperatures as well as the presence of heavy metals accelerate decomposition, therefore a cool, ventilated place protected from light is recommended for storing Hypo.

SAFETY MEASURES

In case of contact with acids or acid vapours it generates chlorine gas, therefore it should not be stored and transported together with acids. Its strong oxidising 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. For more information please see the material safety data sheet.

TECHNICAL DATA SHEET (TDS)

SODIUM-HYPOCHLORITE SOLUTION

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Technical Data Sheet (TDS)
Sodium-hypochlorite solution

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