

SODIUM HYPOCHLORITE

PDS-1400-1104

Sodium hypochlorite is manufactured by exothermic chlorine absorption in liquid caustic soda as follows:



This production also yields an equimolar amount of sodium chloride.

Sodium hypochlorite in water solution is a yellow-greenish liquid with a pungent odour. Sodium hypochlorite is used as reagent; disinfectant, bleaching or oxidising agent.

Some applications of this product may be regulated or restricted by national or international standards (e.g. for food additives, water treatment, the pharmaceutical industry, etc). The buyer and the eventual user, in his sole and entire liability, shall respect those standards, orders of any relevant authority, and all existing patents and intellectual properties rights; and shall comply with the laws and the regulations applicable to our products and/or to his activity. The buyer and the eventual user must independently determine the suitability of this product for any particular purpose and its manner of use.

Please contact us for further information on grades developed for a specific end-use.

Plants

Jemeppe (Belgium), Lillo (Belgium), Martorell (Spain), Torrelavega (Spain), Tavaux (France), Bussi (Italy), Rosignano (Italy), Tavazzano (Italy), Póvoa de Santa Iria (Portugal).

Storage plant

Bad Zurzach (Switzerland).

Standard specification

Product characteristics

Content	Unit	Value ⁽¹⁾	Method of analysis ⁽²⁾
Active chlorine (Cl ₂)	g/kg	≥ 130	Titrimetry (EN 901)
Sodium hydroxide (NaOH)	g/kg	≥ 2 ≤ 8	Titrimetry (ASTM D2022)
Sodium carbonate (Na ₂ CO ₃)	g/kg	≤ 16	
Iron (Fe)	mg/kg	≤ 3	Photometry (ISO 6685)

(1) The values are expressed per kg of solution as such.

(2) The product is analysed with the mentioned methods or with local methods depending on laboratory equipments.

Packaging characteristics

Bulk.

Please contact us for further information on product characteristics (methods of analysis, etc) and packaging characteristics (description of road tankers, etc).

Identification

Sodium Hypochlorite	NaOCl
Molecular weight	74,5
CAS Number	7681-52-9
ID Number (Annex 1)	017-011-00-1
EC Number (EINECS)	231-668-3

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Physical and chemical characteristics

Characteristic	Unit	Value
Density (at 20 °C)	kg/dm ³	~1,25
Vapour pressure (at 20 °C)	kPa	~ 2
Viscosity (at 20 °C)	mPa.s	~ 2,6

Storage

- Sodium hypochlorite must be stored in compliance with relevant laws and regulations. Tanks should be banded.
- Sodium hypochlorite must be disposed of in compliance with relevant laws and regulations. In case of accidental release, small product quantities could be reduced with sulphite.

Please contact us for further information on product handling and storage.

Safety

- Sodium hypochlorite is **corrosive, oxidising and very toxic to aquatic organisms**. It causes burns of the mucous membranes, eyes and skin in case of contact.
- Reactions between sodium hypochlorite and acid generate chlorine which is a very toxic gas. Because of its instability, sodium hypochlorite must not be in contact with organic materials, metals (cobalt, copper, iron, nickel and their alloys and salts), amines, methanol and ammonium salts and must not be exposed to heat and direct sunlight.
- Sodium hypochlorite should be handled by personnel who have received adequate safety training and are wearing adequate **individual protective equipments** (gloves, goggles, etc).
- Handling of sodium hypochlorite should be accompanied by **collective protective measures** (clearly signalled showers and eye baths in the vicinity).

Please consult our safety data sheet.

Transport information

UN number	1791
ADR/RID Class	8
Packing group	III
Hazard label	8
Placard	80/1791

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