

Sodium Hypochlorite

DESCRIPTION

Sodium Hypochlorite is produced by the scrubbing of Chlorine Gas with Caustic Soda Lye.

CHEMICAL NAME & FORMULA

Sodium Hypochlorite
NaOCl

CHEMICAL FORMATION

Liquid

INPUT

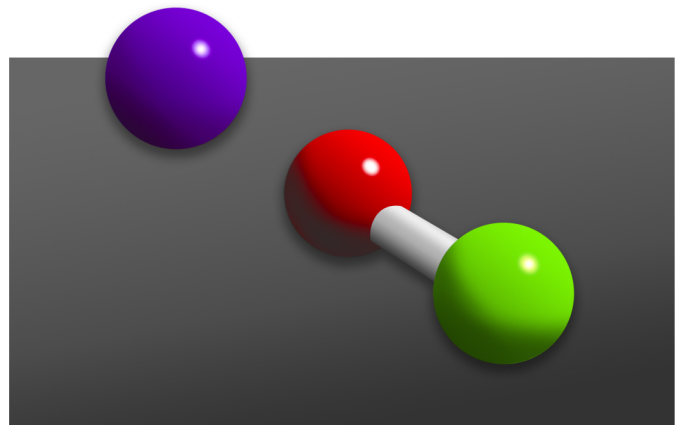
Caustic Soda
& Chlorine gas

OUTPUT

Sodium Hypochlorite

APPLICATIONS

Sodium Hypochlorite is commonly used in water treatment plants, bleaching and in textile as a bleaching agent.



Product Properties

Description	Sodium Hypochlorite
Appearance	Pale Yellow Liquid
Corrosive	Yes
Flammability	Not Flammable
Solubility	Soluble
Boiling Point	40°C (104°F)
Melting / Freezing Point	18°C
Specific Gravity	1.18 at 27°C

Product Specifications Sodium Hypochlorite (10% Solution)

Characteristics	Unit	Type 2
Available Chlorine	gm / L	110 to 120
Free Alkali as NaOH	gm / L	15 to 25
pH	-	11 to 12
Specific Gravity at 30°C	-	1.180 plus

Related Information

PACKAGING & HANDLING

Sodium Hypochlorite is transported in tankers.

TRANSPORT CLASSIFICATION

U.N. No. 1791
 Hazard Class 8
 CAS 7681-52-9

PRODUCT USAGES

It is mostly used as a disinfecting agent.



Product Safety Data

Name of Product	Sodium Hypochlorite, 5%
Composition / Components	Sodium Chlorine and Oxygen
Hazard Identification	IMCO Class 6
First Aid Measures	Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Measures For Fire Fighting	Not Flammable
First Aid Measures In Case Of Unintentional Release	Shut off leaks and dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Handling & Storage	Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material.
Exposure Limit & Staff Protection Equipment	Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.
Physical & Chemical Properties	Pale yellow liquid with chlorine-like and a sweetish odour. Melting Point is 18°C Boiling Point is 101°C It is soluble in water and it is corrosive.
Stability & Reactivity	It is not stable and tends to decompose over time releasing chlorine. Reactive with reducing agents, combustible materials, organic materials, metals, acids.
Information Of Toxicology	Can cause severe irritation and possible burns to skin and eyes.
Information About Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations
Information About Transport	Transportable on road trucks.
Statutory Regulatory Information	Shipping Name: Sodiumhypochlorite
Other Information	U.N. No. 1791 Hazard Class 8 C.A.S. No. 7681-52-9