

# SODIUM HYPOCHLORITE (NaOCI) PRODUCT MATERIAL SAFETY DATA SHEET (MSDS)

#### QCD-DS-005-002 6 June 2016

#### **REVISION HISTORY**

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N/A	27 July 2011	None (Initial revision)
QCD-DS-005-001	22 December 2011	Merged document divided into individual product data sheets.
QCD-DS-005-002	6 June 2016	Content updates.

#### SIGNATURES

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## **1 DISCLAIMER**

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# 2 SODIUM HYPOCHLORITE (NaOCI)

## 2.1 PRODUCT AND COMPANY IDENTIFICATION

Chemical Name:	Sodium Hypochlorite
Trade Name:	Industrial Bleach, 7.0%
Supplier:	International Chemical Industries, Inc.
	Km 32 McArthur Highway, Guiguinto, Bulacan 3015
Telephone:	63-44-7940444-45
Toll Free:	1-800-1888-6800
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## 2.2 HAZARDS IDENTIFICATION

Classification	(GHS):
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Hazard Statements:

**Precautionary Statements:** 

Ingestion: Skin Contact: Eye Contact

Danger
Hazard Pictograms
H315: Causes skin irritation
H318: Causes serious eye damage
H401: Toxic to aquatic life
P264: Wash exposed skin thoroughly after handling
P273: Avoid release to the environment
P280: Wear protective gloves, protective clothing, eye protection,
face protection
P302, P352: If on skin: Wash with plenty of soap and water
P305, P351, P338: If in eyes: Rinse cautiously with water for
several minutes. Remove contact lenses, if present and easy to
00. Continue rinsing D210: Immediately cell a naisen center, er dester/physician
P310. Infinediately call a poison center, or doctor/physician
P362: Take off contaminated clothing
P502. Take on contaminated clothing P501: Dispose of contents/container to comply with government
regulations
TOXICITY ROUTES OF EXPOSURE
May cause irritation to the respiratory tract, (nose and throat);
symptoms may include coughing and sore throat.
May cause nausea, vomiting.
May irritate skin.
Contact may cause severe irritation and damage, especially at
higher concentration.

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Acute Exposure:	Inhalation of material is irritating to nose, throat, and lungs. It may also cause burns to respiratory tract with production of lung edema which can result in shortness of breath, wheezing, coughing, chest pain and impairment of lung function.
Chronic Exposure:	A constant irritant to the eyes and throat. Low potential for sensitization after exaggerated exposure to damaged skin
Overexposure:	Eyes – Contact may cause impairment of vision and corneal damage.
	Skin – Dermal exposure can cause severe irritation without burns characterized by redness, swelling and scab formation. Prolonged skin exposure may cause destruction of dermis with impairment of skin at site of contamination to regenerate.
Medical Conditions Aggravated by Exposure:	Persons with impaired respiratory function, or heart disorders (or disease) may be more susceptible to the effects of the substance.

#### 2.3 COMPOSITION / INGREDIENTS

Sodium Hypochlorite:	8%
Sodium Hydroxide:	0.2%
Chemical Formula:	NaOCI
Molecular Weight:	74.44
CAS Registry No:	7681-52-9

#### 2.4 FIRST AID MEASURES

Skin:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse
Eyes	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen
Ingestion	If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. SEEK MEDICAL ATTENTION IMMEDIATELY!

Note to Physician: Consider oral administration of sodium thiosulfate solutions if sodium hypochlorite is ingested. Do not administer neutralizing substances since the resultant exothermic reaction could further damage tissue. Endotracheal intubation could be needed if glottic edema compromises the airway. For individuals with significant inhalation exposure, monitor arterial blood gases & chest x-ray.

## 2.5 FIRE FIGHTING MEASURES

Auto-ignition Point Flash Point Flammability / Explosive limits: Fire / Explosion Hazards:	Not Applicable Not Applicable Not Applicable Not considered to be a fire hazard. Substance releases oxygen when heated, which may increase the severity of an existing fire. Gives off irritating or toxic fumes (or gases) in a fire. This solution is not considered to be an explosion hazard. Anhydrous sodium
Fire Prevention / Extinguishing Media:	hypochlorite is very explosive Use any means suitable for extinguishing surrounding fire. Use water spray to cool fire- exposed containers, to dilute liquid and control vapor. On small fire, use dry chemical, carbon dioxide or water spray. On large fires, use water in flooding quantities as fog. In case of fire, hazardous concentrations of chlorine may
Special Information:	be formed. See Section 2.8 for personal protective equipment for fire fighting In the event of fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

## 2.6 ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 2.8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible.

Air Release:	Vapors may be suppressed by the use of a water fog. Capture all run-off
	water for treatment and disposal.
Water Release:	This material is soluble in water. Dike or contain material via use of
	vacuum or pump operation and treat before disposition. This material is
	harmful to aquatic life.
Land Spill:	Compatible absorbents: Sand, clay soil, commercial absorbents. Do not
	use combustible materials, such as sawdust.

#### 2.7 HANDLING AND STORAGE

Handling	Do not take internally. Avoid contact with skin or eyes, upon conta	
	with skin or eyes, wash off with water	
Storage Requirements:	Store in a cool, dry well-ventilated area. Avoid high temperatures	
	and exposure to direct sunlight. Store in the dark at the lowest	
	possible temperature, but keep from freezing.	

#### 2.8 EXPOSURE CONTROLS AND PROTECTION

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Appropriate Engineering Controls:	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation
Personal Protective Equipment:	Avoid all unnecessary exposure
Hand protection:	Wear protective gloves
Eye Protection:	Chemical goggles / safety glasses
Skin and Body Protection:	Wear suitable protective clothing
<b>Respiratory Protection:</b>	Wear appropriate mask
Other information:	Do not eat, drink or smoke during use

## 2.9 PHYSICAL AND CHEMICAL PROPERTIES

State:	Liquid
Appearance:	Clear yellow
Odor:	Chlorine-like
pH:	Basic, strong alkali; >11
Boiling point:	Decomposes
Flash point:	Not determined
Specific Gravity:	1.08-1.26
Vapor Pressure:	Not determined
Solubility in Water:	Soluble in water
	Dissolves in acid

## 2.10 STABILITY AND REACTIVITY

Stability	Slowly decomposes on contact with air. Rate increases with concentration and temperature. Exposure to sunlight accelerates decomposition. Sodium Hypochlorite becomes less toxic with age.
Hazardous decomposition product:	Emits toxic fumes of chlorine when heated to decomposition.
Incompatibilities:	Ammonia (chloramines gas may evolve), strong acids, amines, ammonium salts, other oxidizers, metals, formic acid, methanol, cellulose, soaps, and bisulfates
Materials and conditions to avoid:	High heat, sunlight, ultra-violet light, incompatibles

# 2.11 TOXICOLOGICAL INFORMATION

Reproductive toxicity:	Not classified
Specific target organ toxicity (Single Exposure):	Not classified
Specific target organ toxicity (repeated exposure):	Not classified
Aspiration Hazard:	Not classified

Symptoms/injuries after skin contact: Symptoms/injuries after eye contact: Potential Adverse human health effects and symptoms Causes skin irritation. Causes serious eye damage Based on available data, the classification criteria are not met.

#### 2.12 ECOLOGICAL INFORMATION

Ecology – Water: Toxic to aquatic life Environmental Toxicity May pose potential hazard to plant and marine or aquatic life at high concentration. If not diluted, it may seriously affect aquatic life. Bioaccumulative Potential: Not bioaccumulative

#### 2.13 DISPOSAL CONSIDERATIONS

Dilute with water and flush to sewer if local ordinances allow, otherwise, whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Dispose of in accordance with government regulations by treatment in a wastewater treatment system.

#### 2.14 TRANSPORT INFORMATION

TDG Classification: DOT Hazard Classification: DOT Shipping Name: Hazard Label / Placard: Do not ship by air Class 8; Corrosive: Group III Hypochlorite Solutions ID: UN 1791 Corrosive, Environmental Toxicity

## 2.15 REGULATORY INFORMATION

No additional information available.

#### 2.16 OTHER INFORMATION

NFPA Rating: Health: 2 Flammability: 0 Reactivity: 1