

 al kout industrial projects الكوت للمشروعات الصناعية	AL KOUT INDUSTRIAL PROJECTS	Document No:	C-SM-XX-D-010
		Issue No:	1
	Rev no:	4	
	Safety Data Sheet	Date revision	21.11.2018
	SODIUM HYPOCHLORITE- 06%	Page number	Page 1 of 5

1.0 Chemical Identity		
1.1	Product Name	Sodium Hypochlorite (06 %)
	Synonyms	Bleach; Hypochlorous Acid, Sodium Salt; Soda Bleach; Sodium Oxychloride
	Formula	NaOCl
1.2	Recommended Use and Restrictions	
	Use of substance	For general purpose cleaning, sanitizing, bleaching and for controlling bacteria, algae and fungal slimes in pool and industrial waters.
1.3	Company Information	
		Name: Al Kout Industrial Projects , Kuwait Plant: Salt & Chlorine Plant, Shuaiba, Kuwait Company's Post Box No.: 10277, Shuaiba-65453, Kuwait Tel No.: 00-(965)-22283726 Intercom: 3726, 3725 Fax No.: 00-(965)- 22284043 Company's Emergency Phone No: 00-(965)-, 23261029, 97216020, 99794511
1.4	Emergency Telephone Number	00-(965)-, 23261029, 97216020
2.0 Hazards Identification		
2.1	Classification of the Substance or Mixture	
GHS US Classification		
Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Acute 2 H401		
2.2	Label Elements	
GHS US Labeling		
Hazard Pictograms (GHS – US) :		
		
Single Word (GHS-US) : Danger Hazard Statements (GHS-US) : H315 - Causes skin irritation H318 - Causes serious eye damage H401 - Toxic to aquatic life		
Precautionary Statements (GHS – US) : 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 do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician P332+P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing P501 - Dispose of contents/container to comply with local, state and federal regulations		
2.3	Other Hazards	
No additional information available		
2.4	Unknown acute toxicity (GHS US)	
Not Applicable		


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3.0 Composition/ Information on ingredients		
3.1	Substances	
Not Applicable		
3.2	Mixtures	
	Finished product specification	Sodium Hypochlorite (06%)
Chemical Analysis		
PARAMETERS		Specification
	Appearance	Clear greenish yellow aqueous solution
	PH	10.5---12.5
	Specific Gravity at 20 °C	1.07- 1.150
	Sodium Hypochlorite as NaOCl % wt	5.2 – 7.5
	Available Chlorine as Cl ₂ (gpl)	55.0--85.0
	Excess Alkali as NaOH (gpl)	1.0---2.5
	Excess Alkali as Na ₂ CO ₃ (gpl)	4.0---10.0
	Iron as Fe+3 ppm	≤ 1.0
	Copper as Cu+2 ppm	≤ 0.20
	Nickel as Ni+2 ppm	≤ 0.20
Details of ingredients that could be released from the product in Excess of the PEL value		
Warmed to > 40 o C ,or mixed with acids, toxic chlorine gas in excess of the PEL will be evolved.		

Note: Half Shelf life period at 20° C (Winter) : 10 Days
Half Shelf life period at 40°C (Summer) : < 5 Days
Filled containers should be kept under shelter

4.0 First Aid Measures		
4.1	Inhalation	May cause irritation to the respiratory tract, (nose and throat); symptoms may include coughing and sore throat.
4/2	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
4.3	Eyes	Contact may cause severe irritation and damage, especially at higher concentration Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately
4.4	Ingestion	If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by in mouth to an unconscious person. Get medical attention immediately.

5.0 Fire Fighting Measures		
5.1	Fire and Explosion hazards	Not considered to be a fire hazard. Substance releases oxygen when heated, which may increase the severity of an existing fire. Containers may rupture from pressure build-up. This solution is not considered to be an explosion hazard
5.2	Suitable Extinguishing Media	Use any means suitable for extinguishing surrounding fire. Use water spray to cool fire-exposed containers, to dilute liquid, and control vapor
5.3	Special Information.	In the event of a 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.

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6.0 Accidental Release Measures

6.1	Personal Precautions	Ventilate area of leak or spill. Wear appropriate personal protective equipment. A full face-piece respirator with an acid gas cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face-piece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.
6.2	Clean Up Methods	For large spills, evacuate the hazard area of unprotected personnel. Wear appropriate protective clothing. Dike and contain. Neutralize with sodium sulfite, bisulfite or thiosulfite. Remove with vacuum trucks or pump to storage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. For small spills, take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal. This material is alkaline and may raise the pH of surface waters with low buffering capacity.

7.0 Handling and Storage

7.1	Handling & Storage	Store in vented, closed, clean non-corrosive containers in a cool, dry location away from direct sunlight and not adjacent to chemicals which may react with the bleach if spillage occurs. If closed containers become heated, the containers should be vented to release decomposition products (mainly oxygen under normal decomposition). Do not mix or contaminate with ammonia, hydrocarbons, acids, alcohols or ethers
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8.0 Exposure Controls/Personal Protection

8.1	Exposure Control	Provide Exhaust Ventilation or other Engg controls to keep the airborne concentrations of vapors below their respective TLV's.
8.2	Personal Protection	Face shield, Full Suit, Rubber or PVC gloves, Boot, Vapor respirator (approved/certified type)
	Exposure Limits	OSHA-PEL, IDLH, ACGIH-TLV not available. STEL = 2 mg/m ³




9.0 Physical and Chemical Properties

9.1	Appearance/ Colour	Colorless to pale yellow watery liquid
9.2	Odour	Pungent chlorine odor
9.3	Molecular Weight	75.45
9.4	Melting Point	-5°C to -25°C
9.5	Boiling Point	40°C -76°C (104-169°F)
9.6	Specific gravity	1.07-1.15 @ 20°C
9.7	Vapour Density (Air = 1)	2.61
9.8	Vapour Pressure @ 20°C	12-17 mm Hg
9.9	Solubility (water)	Very soluble

10.0 Stability and Reactivity


10.1	Stability	Slowly decomposes on contact with air. Rate increases with the concentration and temperature. Exposure to sunlight accelerates decomposition. Sodium hypochlorite becomes less toxic with age
10.2	Hazardous decomposition Products	Emits toxic fumes of chlorine when heated to decomposition. Sodium oxide at high temperatures
10.3	Incompatibilities	Ammonia (chloramine gas may evolve), amines, ammonium salts, aziridine, methanol, phenyl acetonitrile, cellulose, ethyleneimine, oxidizable metals, acids, soaps, and bisulfates. Reacts with Hydrochloric Acid, liberating Chlorine gas.

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11.0 Toxicological Information		
11.1	Tumorigenic	HTP IARC Group 3 .Evidence of Carcinogenic activity in experimental rats exposed orally. Not classified as carcinogenic in humans
11.2	Reproductive	Embryo and fetotoxicity observed in female rats exposed at 565 mg/Kg prior to mating and also in pregnant rats
11.3	Mutagenic	Mutagenic effects seen in bacterial, mammalian and insect assay systems
11.4	Other effects	Toxic effects reported in renal system, blood and spleen from inhalation exposure of rats.


12.0 Ecological Information	
12.1	Toxic to aquatic life.

13.0 Disposal Considerations	
13.1	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. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements

14.0 Transport Information		
14.1	UN No	1791
14.2	IMCO Class	5.1 
14.3	Packaging	III
14.4	ADR/RID classification code	C9

15.0 Regulatory Information	
15.1	Hazardous by definition of Hazard Communication standard (29 CFR 1910: 1200) OSHA

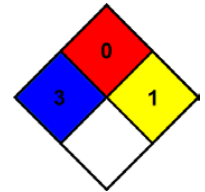
16.0 Other Information		
16.1	Packing	Jerry Cans, IBC's, ISO Tankers & Road Tankers
16.2	Disclaimer	The Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is upto the manufacturer/seller to ensure that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold by him as the case may be. The AIPC makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.

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NFPA health hazard injury. : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity Hazard Rating : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.




Health given : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given


Flammability : 0 Minimal Hazard - Materials that will not burn


Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Personal protection : H
H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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1.0 Chemical Identity		
1.1	Product Name	Sodium Hypochlorite (12 %)
	Synonyms	Bleach; Hypochlorous Acid, Sodium Salt; Soda Bleach; Sodium Oxychloride
	Formula	NaOCl
1.2	Recommended Use and Restrictions	
	Use of substance	For general purpose cleaning, sanitizing, bleaching and for controlling bacteria, algae and fungal slimes in pool and industrial waters.
1.3	Company Information	
		Name: Al Kout Industrial Projects , Kuwait Plant: Salt & Chlorine Plant, Shuaiba, Kuwait Company's Post Box No.: 10277, Shuaiba-65453, Kuwait Tel No.: 00-(965)-22283726 Intercom: 3726, 3725 Fax No.: 00-(965)- 22284043 Company's Emergency Phone No: 00-(965)-, 23261029, 97216020, 99794511
1.4	Emergency Telephone Number	00-(965)-, 23261029, 97216020
2.0 Hazards Identification		
2.1	Classification of the Substance or Mixture	
GHS US Classification		
	Met. Corr. 1 H290 Skin Corr. 1C H314 Eye Dam. 1 H318 STOT SE 3 H335	
2.2	Label Elements	
GHS US Labeling		
Hazard Pictograms (GHS – US)		
Single Word (GHS-US)		: Danger
Hazard Statements (GHS-US)		: H290 - May be corrosive to metals H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation
Precautionary Statements (GHS – US)		: P234 - Keep only in original container P260 - Do not breathe dust or mist P264 - Wash hands, forearms, and face thoroughly after handling P280 - Wear protective gloves, protective clothing, eye protection, face protection
vomiting		: P271 - Use only outdoors or in a well-ventilated area P390 - Absorb spillage to prevent material damage P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
contaminated clothing. Rinse skin with water or shower		: P310 - Immediately call a POISON CENTER/doctor P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
comfortable for breathing		: P363 - Wash contaminated clothing before reuse P310 - Immediately call a POISON CENTER/doctor P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing


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P310 - Immediately call a POISON CENTER/doctor P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER/doctor P405 - Store locked up P403+P233 - Store in a well-ventilated place. Keep container tightly closed P406 - Store in a corrosion resistant container with a resistant inner liner P501 - Dispose of contents/container in accordance with local/regional/national/international regulation	
2.3	Other Hazards
No additional information available	
2.4	Unknown acute toxicity (GHS US)
Not Applicable	

3.0 Composition/ Information on ingredients		
3.1	Substances	
Not Applicable		
3.2	Mixtures	
	Finished product specification	Sodium Hypochlorite (12 %)
	Chemical Analysis	
	PARAMETERS	Specification
	Appearance	Clear greenish yellow aqueous solution
	Ph	11.5---12.5
	Specific Gravity at 20 °C	1.220- 1.270
	Sodium Hypochlorite as NaOCl % wt	12.0---15.0
	Available Chlorine as Cl ₂ (gpl)	140---190
	Excess Alkali as NaOH (gpl)	7.0---12.0
	Excess Alkali as Na ₂ CO ₃ (gpl)	8.0---16.0
	Iron as Fe+3 ppm	≤ 1.0
	Copper as Cu+2 ppm	≤ 0.50
	Nickel as Ni+2 ppm	≤ 0.30
	Details of ingredients that could be released from the product in Excess of the PEL value	
	Warmed to > 40 o C ,or mixed with acids, toxic chlorine gas in excess of the PEL will be evolved.	

Note: Half Shelf life period at 20° C (Winter) : 10 Days
Half Shelf life period at 40°C (Summer) : < 5 Days
Filled containers should be kept under shelter

4.0 First Aid Measures		
4.1	Inhalation	May cause irritation to the respiratory tract, (nose and throat); symptoms may include coughing and sore throat Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately
4/2	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
4.3	Eyes	Contact may cause severe irritation and damage, especially at higher

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		concentration Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately
4.4	Ingestion	If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by in mouth to an unconscious person. Get medical attention immediately.

5.0 Fire Fighting Measures

5.1	Fire and Explosion hazards	Not considered to be a fire hazard. Substance releases oxygen when heated, which may increase the severity of an existing fire. Containers may rupture from pressure build-up. This solution is not considered to be an explosion hazard
5.2	Suitable Extinguishing Media	Use any means suitable for extinguishing surrounding fire. Use water spray to cool fire-exposed containers, to dilute liquid, and control vapor
5.3	Special Information.	In the event of a 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.

6.0 Accidental Release Measures

6.1	Personal Precautions	Ventilate area of leak or spill. Wear appropriate personal protective equipment. A full face-piece respirator with an acid gas cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face-piece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.
6.2	Clean Up Methods	For large spills, evacuate the hazard area of unprotected personnel. Wear appropriate protective clothing. Dike and contain. Neutralize with sodium sulfite, bisulfite or thiosulfite. Remove with vacuum trucks or pump to storage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. For small spills, take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal. This material is alkaline and may raise the pH of surface waters with low buffering capacity.

7.0 Handling and Storage


7.1	Handling & Storage	Store in vented, closed, clean non-corrosive containers in a cool, dry location away from direct sunlight and not adjacent to chemicals which may react with the bleach if spillage occurs. If closed containers become heated, the containers should be vented to release decomposition products (mainly oxygen under normal decomposition). Do not mix or contaminate with ammonia, hydrocarbons, acids, alcohols or ethers.
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8.0 Exposure Controls/Personal Protection

8.1	Exposure Control	Provide Exhaust Ventilation or other Engg controls to keep the airborne concentrations of vapors below their respective TLV's.
8.2	Personal Protection	Face shield, Full Suit, Rubber or PVC gloves, Boot, Vapor respirator (approved/certified type)
	Exposure Limits	OSHA-PEL, IDLH, ACGIH-TLV not available. STEL = 2 mg/m ³



9.0 Physical and Chemical Properties

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9.1	Appearance/ Colour	Colorless to pale yellow watery liquid
9.2	Odour	Pungent chlorine odor
9.3	Molecular Weight	75.45
9.4	Melting Point	-5°C to -25°C
9.5	Boiling Point	40°C -76°C (104-169°F)
9.6	Specific gravity	1.220-1.270 @ 20°C (Water=1)
9.7	Vapour Density (Air = 1)	2.61
9.8	Vapour Pressure @ 20°C	12-17 mm Hg
9.9	Solubility (water)	Very soluble

10.0 Stability and Reactivity		
10.1	Stability	Slowly decomposes on contact with air. Rate increases with the concentration and temperature. Exposure to sunlight accelerates decomposition. Sodium hypochlorite becomes less toxic with age
10.2	Hazardous decomposition Products	Emits toxic fumes of chlorine when heated to decomposition. Sodium oxide at high temperatures
10.3	Incompatibilities	Ammonia (chloramine gas may evolve), amines, ammonium salts, aziridine, methanol, phenyl acetonitrile, cellulose, ethyleneimine, oxidizable metals, acid soaps, and bisulfates. Reacts with Hydrochloric Acid, liberating Chlorine gas.


11.0 Toxicological Information		
11.1	Tumorigen	HTP IARC Group 3. Evidence of Carcinogenic activity in experimental rats exposed orally. Not classified as carcinogenic in humans
11.2	Reproducti	Embryo and fetotoxicity observed in female rats exposed at 565 mg/Kg prior to mating and also in pregnant rats
11.3	Mutagenic	Mutagenic effects seen in bacterial, mammalian and insect assay systems
11.4	Other effec	Toxic effects reported in renal system, blood and spleen from inhalation exposure of rats.

12.0 Ecological Information	
12.1	May cause long-term adverse effects in the aquatic environment.

13.0 Disposal Considerations	
13.1	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. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements

14.0 Transport Information		
14.1	UN No	1791
14.2	IMCO Class	5.1 
14.3	Packaging	III
14.4	ADR/RID classification code	C9

15.0 Regulatory Information	
15.1	Hazardous by definition of Hazard Communication standard (29 CFR 1910: 1200) OSHA

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16.0 Other Information		
16.1	Packing	Jerry Cans, IBC's, ISO Tankers & Road Tankers
16.2	Disclaimer	<p>The Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is upto the manufacturer/seller to ensure that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold by him as the case may be. The AIPC makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.</p>

NFPA health hazard injury : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

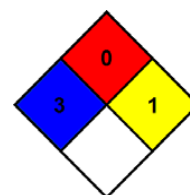
NFPA reactivity Hazard Rating : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

Health given : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Personal protection : H
H - Splash goggles, Gloves, Synthetic apron, Vapor respirator



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.