AGC Chemicals (Thailand) Co., Ltd.

Document Title:

Sodium Hypochlorite 10%

Document No.:

SD-SM-009

Effective 21/11/2016 Rev. 04 Page 1/8 date:

## Safety Data Sheet

### 1. Identification of the substance and of the supplier

**Product identifiers** 

Product name: SODIUM HYPOCHORITE, SOLUTION

Trade name: SODIUM HYPOCHORITE 10%

Other means of identification:

การบ่งชี้ด้วยวิธีฉิ่น ๆ : CAS No. : 7681-52-9 EC/EINECS : 231-668-3

RTECS No.: NH3486300 UN No. : 1791 EC Index No. : 017-011-00-1

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances, Pulp and paper, Disinfection,

Water treatment, Textile, Bleaching

Avoid exposure to heat and sunlight.

Details of the supplier of the safety data sheet

Company : AGC Chemicals (Thailand) Co., Ltd

25 Bangkok Insurance Building 24 th floor,

South Sathorn Rd, Tungmahamek, Sathorn, Bangkok 10120, Thailand

Telephone : +66-2679-1600

Fax : +66-2677-3177

Phrapradaeng Factory: 202 Moo 1, Suksawasdi Rd. (Km. 17), Tambol Pak Klong Bang Plakod,

Amphur

Prasamutjedi, Samut Prakarn 10290

Telephone : +66-2463-6345-8, +66-2464-3948-9

Fax : +66-2463-3728

Rayong Factory : 4 SOI G-12 Pakorn Songkrorad Rd., Hemaraj Eastern Industrial Estate

(Map-Ta-Phut),

Map - Ta- Phut, Muang Rayong, Rayong 21150 Thailand

Telephone : +66-3868-3572-5, +66-3868-5495-501

Fax : +66-3868-3576

Emergency telephone number: Phrapradaeng Factory: +66-2463-6345-8 Ext. 400 (24 hours)

Rayong Factory: +66-38-683-572-5 Ext. 191 (24 hours)

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## 2. Hazards Identification

GHS Classification of the substance or mixture

Skin corrosion/irritation

Serious eye damage/eye irritation

Skin Sensitization

Specific target organ toxicity - single exposure

(respiratory system)

Category 1

Category 1

Specific target organ toxicity - Repeated exposure (respiratory system )

Acute hazards to the aquatic environment

Label elements



Category 1

Category 1

Pictogram

Signal word

DANGER

Hazard statement(s)
Causes severe skin burns and eye damage
May cause an allergic skin reaction
Cause damage to respiratory system.
Very toxic to aquatic life

Precautionary statement(s)
Avoid breathing vapors.
Wear protective gloves, eye protection/face protection.
Store in well-ventilated place. Keep container tightly closed.
Avoid release to the environment.

Other hazards which do not result in classification - none

# 3. Composition/Information on Ingredients

Mixtures

Formula: NaOCI

Molecular weight: 74.442 g/mol

Synonyms: Antiformin ,B-K liquid; Carrel-dakin solution; Chloros; Chlorox; Clorox; Dakins

solution; Deosan; Hyclorite; Javex; Klorocin; Milton; Neo-cleaner; Neoseptal CL; Parozone; Purin B;

Sodium chloride oxide; Sodium oxychloride; Surchlor

Minimum percentage: 10

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Component	CAS No	EC-No.	Wt.%
Sodium hypochlorite	7681-52-9	231-668-3	10
Water	7732-18-5	231-791-2	90

#### 4. First Aid Measures

#### Inhalation

Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

#### Skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water for at least 30 minutes. Get medical attention immediately

#### Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.

#### Ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately

# Most important symptoms and effects, both acute and delayed

If inhaled Cough. Sore throat. Burning sensation. Laboured breathing. Shortness of breath.

Skin contact Redness. Serious skin burns. Blisters.

Eye contact: Redness. Pain. Blurred vision. Severe burns. Permanent eye damage. Possible blindness.

**If swallowed :** Burning sensation in mouth , throat , chest, stomach and gastrointestinal tract. Abdominal pain. . Vomiting. Shock or collapse

# Indication of any immediate medical attention and special treatment needed:

Treat symptomatically. Can cause corneal burns.

# 5. Fire Fighting Measures

#### Suitable extinguishing media

Foam, carbon dioxide, dry powder.

# Special hazards arising from the substance or mixture

Hydrogen chloride gas, Sodium oxides

# Special protective equipment and precautions for fire-fighters

Wear full chemical resistant clothing with self contained breathing apparatus for fire fighting . Use water spray to keep fire-exposed containers cool.

# 6. Accidental Release Measure

#### Personal precautions

Evacuate personnel to safe areas.

Avoid inhalation of vapours. Keep container closed.

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Protective equipment

Wear a full-face respirator with respirator cartridges. Wear impervious protective clothing, including boots, gloves.

### **Environmental precautions**

Do NOT let this chemical enter the environment.

#### Methods and materials for containment and cleaning up

Wear chemical protection suit including self-contained breathing apparatus.

Soak up with inert absorbent material and dispose of as hazardous waste. Do not flush with water.

Keep in suitable, closed containers for disposal.

# 7. Handling and Storage

#### Precautions for safe handling

Avoid contact with skin and eyes.

Provide adequate ventilation during use.

Avoid breathing vapors.

Never add water to this product. When diluting always add it slowly to the water with constant agitation. .

# Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in well-ventilated place. Store in a dry and cool place.

Avoid contact with water.

Do not store near acids.

# 8. Exposure Controls/Personal Protection

Control parameters : Not established

#### Appropriate engineering controls

Ensure ventilation is adequate.

Use with local exhaust ventilation.

## Personal protective equipment

Respiratory protection

Use a full-face respirator with respirator cartridges.

Eye/face protection

Goggles or face shield.

Skin protection

Use rubber gloves.

**Body Protection** 

Proper protective clothing.

Work / Hygienic Practices:

Wash contaminated clothing prior to reuse.

Always wash hands before smoking, eating, drinking or using the toilet.

Do not eat, drink, or smoke during work

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# 9. Physical and Chemical Properties

a) Appearance: liquid, clear, yellowish solution

b) Odour Characteristic odour
c) Odour Threshold No data available
d) pH 10.8-11.4
e) Melting point/freezing point -30- -20 °C

f) Boiling point
g) Flash point
h) Evaporation rate
i) Flammability (solid, gas)

No data available
No data available

j) Upper/lower flammability or explosive limits
No data available
17.5 mmHg at 20 °C
No data available
No data available

m) Relative density 1.21

n) Water solubility completely miscible
o) Partition coefficient: noctanol/water log Pow No data available

p) Auto ignition temperature
 q) Decomposition temperature
 r) Viscosity
 Not Applicable
 No data available
 No data available

# 10. Stability and Reactivity

Reactivity Reacts violently with combustible and reducing materials, causing fire and explosion hazard. The solution in water is a strong base, it reacts violently with acid and is corrosive. Attacks many metals.

Chemical stability Stable under normal ambient handling conditions.

Possibility of hazardous reactions No data available

Conditions to avoid Heat.

Incompatible materials Strong acid .Organic materials, powdered metals.

Hazardous decomposition products No data available

## 11. Toxicological Information

**Inhalation**: Burning sensation. Cough. Laboured breathing. Shortness of breath. Sore throat. Symptoms may be delayed

Skin contact: Corrosive to skin, redness, skin burns, pain. Blisters.

Eye contact : Corrosive to eyes; Redness. Pain. Severe deep burns.

Ingestion : Corrosive on ingestion. Abdominal pain. Burning sensation. Shock or collapse.

Unconsciousness, Vomiting.

Symptoms related to the physical, chemical and toxicological characteristics;

Burning sensation. Cough, Sore throat, Shortness of breath, inflammation and edema of the bronchi. Vomiting.

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#### Immediate effects

The substance is corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion. Inhalation of vapours may cause lung oedema.

#### Chronic effects

Repeated or prolonged contact may cause skin sensitization.

## Numerical measures of toxicity

Acute toxicity

Based on the available test data, acute toxicity is considered to be low.

## Skin Corrosion/Irritation:

Severely irritating, or even corrosive to skin.

## Serious eye damage/irritation:

Can cause severe irritation and serious damage to eyes

# Specific target organs/systemic toxicity following single exposure

Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema.

## Specific target organs/systemic toxicity following repeated exposure

May cause lung damage,

# 12. Ecological Information

**Ecotoxicity** 

Fish: Clupea harengus LC50: 0.065 mg/L 96 hr

Crustaceans: Daphnia magna EC50: 0.032 mg/L 48 hr

Algae Gracilaria tenuistipitata Red algae EC50: 46 mg/L 96 hr

Persistence and degradability

Rapid degradability

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

#### 13. Disposal Considerations

#### Waste treatment methods

Waste treatment should be managed in an appropriate and approved waste facility. Dispose of all contained and contaminated spill residue in accordance with local/regional/national/international regulations..

## Contaminated packaging

Dispose of as unused product.

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14. Transport Information

**UN** number

1791

UN proper shipping name

HYPOCHLORITE, SOLUTION

Transport hazard class(es)

Packaging group

11, 111

Marine pollutant:

No

Transport in bulk

IBC 03

Special precautions for user

No data available

# 15. Regulatory Information

Thailand Regulations:

Hazardous Substances Act: Class of Hazardous Substance: Type 1

**US Regulations** 

SARA Title III: Yes

SARA 311/312: Acute; mixture/liquid

Section 313 Form R: No

Reportable Quantity: 100 lbs. CERCLA RCRA Hazardous Waste: Not listed

Clean Water Act: 100 lbs. TSCA Inventory: Yes

TSCA 8(d): No

TSCA 12(b): No

TSCA Flags: XU

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases

R31 Contact with acids liberates toxic gas

R34 Causes burns

Safety Phrases

S1/2 Keep locked up and out of reach of children

S28 After contact with skin, wash immediately with plenty of soap and water

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where

S50 Do not mix with acid

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets

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# 16. Other Information

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