

### MATERIAL SAFETY DATA SHEET

#### SODIUM HYPOCHLORITE

Disiapkan oleh

∕SHE Manager

Disahkan oleh Collective GM NO. DOKUMEN : TBL-QSE-SHE-004 NO. REVISI : 1

TGL. BERLAKU : 25 Juni 2020

: 1/5 **HALAMAN** 

1. Identification of the substance/preparation and the company / undertaking :

Identification of the product

Product Name

: Sodium Hypochlorite

Other Mama

: Chloros, Hyclorite.

Manufacturer / Supplier identification

Company

: PT. Sulfindo Adiusaha, Serang - Banten, Indonesia

Contact for information . Telp: +6221 525 8300

Ħax: +6221 525 8399

Emergency phone no : +62254 575 0035 ext 1205

2. Information on ingredients

CAS-No

: 7681-52-9

Molar mass

: 74.4

Molecular form

: NaOCI

Form

: Liquid

3. Hazard identification:

Pictogram





Signal Word

**DANGER** 

Hazard identification:

Having the character of iritative and can be release gas of chlor.

Skin

: can be irritating if contact is maintained.

Eye

: can be irritating if contact is maintained.

Swallowed

: Burning of mouth, nausea and vomiting, delirium, coma.

Inhalated

: Will produce severe bronchial irritation and pulmonary edema

Prolonged contact with skin may cause a burn.

Swallowed

: toxic

Fire hazards

: May decompose, generating irritating chlorine gas.

FORM-ISO-ALL-003-Rev.0



### MATERIAL SAFETY DATA SHEET

### SODIUM HYPOCHLORITE

 NO. DOKUMEN
 : TBL-QSE-SHE-004
 TGL. BERLAKU
 : 25 Juni 2020

 NO. REVISI
 : 1
 HALAMAN
 : 2/5

Precautionary Statement:

Avoid release to the environment

Wear appropriate personal protection to prevent if contact with HYPO with Rubber gloves, goggles, self-contained breathing apparatus, plastic coveralls and boots.

Do not handle until all safety precaution have been reed and understood

4. First aid measured

After eye contact:

Flush with plenty of water for 15 minutes and bring to physician.

After inhalation

Immediately remove victim to place which enough air, giving exhalation of oxygen. Victim

immediately bring to doctor.

After skin contact

Wash contaminated area with soap and water.

After swallowing:

Nut and drink water 240-300 ml for thinning, if victim in one's sober senses, immediately bring to doctor.

5. Fire fighting measure:

Nature of material:

non flammable, oxidator

Suitable extinguishing media:

Chemical, CO<sub>2</sub>, foam, or water in flooding quantities.

Special risk :

Effect of heat earn ravelled to become  $Cl_2$  and of  $O_2$ .

Special protective equipment for fire fighting:

Use fire exthinguisher type dry powder, CO<sub>2</sub> or spray water. removing tank / save from fire area if possible and do not high risk. barricade fire exthinguiser water don't irrigate to disseminate to all place because the water contain Sodium of Hypochloride. neglectless burning of materials will release poison gas of Cl<sub>2</sub>.

0



### MATERIAL SAFETY DATA SHEET

### SODIUM HYPOCHLORITE

 NO. DOKUMEN
 : TBL-QSE-SHE-004
 TGL. BERLAKU
 : 25 Juni 2020

 NO. REVISI
 : 1
 HALAMAN
 : 3/5

6. Accidental release measures :

Small leakage:

Reduced with Natrium Sulfit, iron salt (II) by enhancing H<sub>2</sub>SO<sub>4</sub>2N.

Big leakage:

immediately isolation spilled area. Don't touch spilled materials and spilled can be permeated.

Neutralizing Agents for Acids and Caustics: Sodium disulfite.

Personal Protective Equipment used:

Use Chlor masker SCBA, goggle, gloves (PVC, Rubber, Neoprene), plastic coveralls and boots.

7. Handling and stokage;

Handlina:

Sensitive to light. During handling NaOCI use personal protective equipment such as Chemical Clothes, goggles, full face mask, gloves ( PVC, Rubber, Neoprene) Safety shoes, masker to Chlor

Prevention to exposure :

Prevent form of vapour, work in place which ventilating.

Storage:

Tightly dosed protected from light strore bellow 15°C . may decomposed forming gaseous product, especially when stored over long periode. Warehouse building have to hold up corrosive. check Requirements for storage rooms and containers:

Don't be kept by nearby carbon, keep in cool room, dry and ventilate.

8. Exposure control / personal protection :

Technical exposure:

Adequate ventilation.

Personal protective equipment:

Masker, gloves, goggle, chemical clothes.

9. Physical and chemical properties:

Odorless liquid, corrosive and reaction with water.

Odor

household bleach

Colour

Colorless or slightly yellow watery liquid

pH value

no

Melting temperature

not available



### MATERIAL SAFETY DATA SHEET

#### SODIUM HYPOCHLORITE

NO. DOKUMEN : TBL-QSE-SHE-004 TGL. BERLAKU : 25 Juni 2020 NO. REVISI HALAMAN : 4/5

Boiling temperature

Ignition temperature

Flash point

Explosion limit.

lower

upper

Relative vapour density

Specific gravity

Solubility in water

decomposition at 40°C

not available

not available

not available not available

not available

1.093 for 5% sodium hypochlorite solution

complete

10. Stability and reactivity

Reactivity:

Ravelled slowly, but mounting quickly if temperature go up until 40°C, releasing poison gas of Cl<sub>2</sub>. reacting with acid and reduktor by releasing poison gas. Exsplosive if reacting with Format Acid at temperature 55°C.

Stability:

no available

Condition to be avoided:

Don't be kept by nearby carbon.

Substances to be avoided:

Flammable materials, reductor, strong acid, nitrogen compound and metals (Cu, Ni, and Co), urea, and sulfuric acid.

11. Toxicological information:

Threshold limit value: no information available.

After eye contact: having the character of iritant or felt hot at eye if consentration 1 ppm pH < 7.2.

After skin contact: generating eczema or alergy/dermatitis do not have the character of

accumulatively.

Swallowed LD 50 (mouth): 8910 mg/kg

Inhalated LC 50: no available

Local Effect:

Short explanation (acute):

Vapour have the character of iritant to nose, red lane and eye, even can destroy lung.

Chronic:

Generating alergy/dermatitis or eczema.



# PT. SULFINDO ADIUSAHA MATERIAL SAFETY DATA SHEET

### SODIUM HYPOCHLORITE

 NO. DOKUMEN
 : TBL-QSE-SHE-004
 TGL. BERLAKU
 : 25 Juni 2020

 NO. REVISI
 : 1
 HALAMAN
 : 5/5

### 12. Ecological information:

Environment effect:

Waste of NaOCI don't be thrown to territorial water of public because is poisonous.

Environment degradation:

not available

Bio acumulation:

not available

13. Disposal Consideration

Neutralized in chemical pit with Natrium Sulfit, Natrium Bisulfit or Natrium Thiosulfate (Do not use Sulfate or Bisulfates) by enhancing H<sub>2</sub>SO<sub>4</sub>2N. after reaction of reduction finish, solution neutralized with alkali before thrown until pH 6-9

14. Transport information

International Rules:

DOT rules or your country rules.

Transport over land:

Tank truck with rubber lining

Sea transportation:

Ship tanker

Air transportation:

no available

15. Regulatory Information:

Ministry of Indonesian Man Regulation No. KEP. 187/MEN/1999 about Controlling of Hazardous Chemical Materials in Working Place, section III about Determined of Hazardous Potential of Refer to The Government of Republic Indonesia regulation (number 74 year 2001) for Handling of Hazardous Materials.

#### 16. Other Information

#### Revison 1, June 2020

The information given corresponds to the current state of our knowledge and experience of the product.

This applies to product which conforms to the specification, unless otherswise stated.

h