



PT. SULFINDO ADIUSAHA

MATERIAL SAFETY DATA SHEET

CAUSTIC SODA FLAKE

Disiapkan oleh SHE Manager	Disahkan oleh Collective GM	NO. DOKUMEN : TBL-QSE-SHE-002
		NO. REVISI : 1
		TGL. BERLAKU : 25 Juni 2020
		HALAMAN : 1/5

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

Identification of the product

Product Name : Sodium hydroxide
Other Name : Caustic Soda Flake, Sodium Hydrate.
UN Number : 1823
Packing Group : II
Imp Class : 8
H.S. Code : 2815.11.00

Manufacturer / Supplier identification

Company : PT. Sulfindo Adiusaha, Serang – Banten, Indonesia
Contact for informator : Telp : **+6221 525 8300**
Fax : **+6221 525 8399**
Emergency phone no : +62254 575 0035 ext 1205

2. Information on ingredients

A white solid. Corrosive to metals and tissue. Used in chemical manufacturing, petroleum refining, cleaning compounds, drain cleaners.

CAS-No : 1310-73-2
Molar mass : 40.00
Molecular form : NaOH
Form : Flake / Solid

3. Hazard identification :

Pictogram



Signal Word

DANGER

Hazard identification :

Skin : burn
Eye : burn
Swallowed : mucous membranes
Inhalation : damage to upper respiratory tract and lung itself, producing from mild nose irritation to pneumonitis.



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NO. DOKUMEN : TBL-QSE-SHE-002

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NO. REVISI : 1

HALAMAN : 2/5

Precautionary Statement :

Keep away from children

Wear appropriate personal protection like Gas mask, goggles or shield of face (Full Face). Gloves (neoprene, PVC or nitrile).

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

Avoid release to the environment

4. First aid measures

After eye contact :

If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. If breathing has stopped, perform mouth-to-mouth resuscitation. Keep the affected person warm and at rest. Get medical attention as soon as possible.

After inhalation

If this chemical contacts the skin, immediately flush the contaminated skin with water. If this chemical penetrates the clothing, immediately remove the clothing and flush the skin with water. Get medical attention promptly.

After skin contact

If this chemical contacts the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Contact lenses should not be worn when working with this chemical.

After swallowing :

Make victim drink plenty of water (if necessary several liters), avoid vomiting (risk of perforation). Immediately summon doctor. Do not attempt to neutralize.

5. Fire fighting measure :

Nature of material :

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Contact with metals may evolve flammable hydrogen gas.

Suitable extinguishing media :

Dry powder, CO₂.

Special risk :

Non - combustible. Ambient fire may liberate hazardous vapours. Hydrogen may form upon contact with light metals (danger of explosion).

Special protective equipment for fire fighting :

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.



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NO. DOKUMEN : TBL-QSE-SHE-002

TGL. BERLAKU : 25 Juni 2020

NO. REVISI : 1

HALAMAN : 3/5

6. Accidental release measures :

Small leakage :

Neutralize with dilute acid.

Big leakage :

Cover solids with a plastic sheet to prevent dissolving in rain or fire fighting water. Water spill:

Neutralize with dilute acid.

Personal Protective Equipment used:

Wear appropriate eye protection to prevent eye contact like goggle or shield of face (Full Face),

Gas mask, Gloves (neoprene, PVC or nitrile).

7. Handling and storage :

Handling :

No further requirements.

Storage :

Tightly closed. Dry. Protected from air. Above 0°C

Requirements for storage rooms and containers :

No aluminium, tin, or zinc containers.

8. Exposure control / personal protection :

Technical exposure :

Neutralize with dilute acid.

Personal protective equipment :

Gas mask, goggles or shield of face (Full Face). Gloves (neoprene, PVC or nitrile).

9 Physical and chemical properties :

Form

Liquid

Colour

Colourless liquid

Odor

Odorless

pH value (20°C)

near 14

Melting temperature

605° F

Boiling temperature

2534°F at 760 mm/Hg

Ignition temperature

not available

Flash point

not available

Explosion limit lower

not available

upper

not available

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NO. REVISI : 1

HALAMAN : 4/5

Relative vapour density : not available
Specific gravity : 1.5 at 68° F
Solubility in water : 42 g/100 ml at 0°C and 347 g/ml at 100°C

10. Stability and reactivity

Reactivity :

Slowly absorbs carbon dioxide from the air to give solid products as crusts or precipitates. Water soluble. Dilution with water liberates heat, possibly enough to cause local boiling and spattering.

Stability :

Unstable if heated

Condition to be avoided :

no information available

Substances to be avoided :

aluminum and zinc, acetaldehyde, tetrahydrofuran, glacial acetic acid, acetic anhydride, acrolein, chlorohydrin, chlorosulfonic acid, ethylene cyanohydrin, glyoxal, hydrochloric acid (36%), hydrofluoric acid (48.7%), nitric acid (70%), oleum, propiolactone, sulfuric acid (96%) metals, light metals : formation of hydrogen (risk of explosion)

11. Toxicological information :

Quantitative data on the toxicity of this product are not available

After skin contact : burns, necrosis

After eye contact : burns, necrosis, risk of blindness

After swallowing : burns of mouth, mucous membranes, oesophagus. Risk of perforation in the oesophagus stomach.

Systemic effect collapse, death

Further data

The product should be handled with the care usual when dealing with chemicals

12. Ecological information :

Biological effects : toxic effect on fish and plankton. Harmful effect due to pH shift. Death of fish possible. Does not cause biological oxygen deficit. Neutralization possible in waste water treatment plants.

LD50 : not available

LC50 : not available

Further ecological data :

Do not allow to enter drinking water supplies, waste water or soil.



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HALAMAN : 5/5

13. Disposal Consideration

There are no uniform EC Regulations for the disposal of chemical or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special

Packaging :

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non contaminated packaging may be treated like household waste or recycled.

14. Transport information

International Rules :

DOT rules or your country rules.

Transport over land :

Container truck

Sea transportation :

Container ship

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

Revision 2, 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 otherwise stated.

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