



SAFETY DATA SHEET

0.1 N Sodium hydroxide**1. Identification of the substance and of the supplier****Product identifier**

Chemical name 0.1 N Sodium hydroxide

Recommended use of the chemical and restrictions on use

-

Manufacturer/ supplier details

Company name

Ya Thai Chemical Co., Ltd.

Company address

78/9 Moo 5 Takam, Bangpakong,
Chachoengsao 24130 THAILAND

Phone number

66-3857-4400

Fax

66-3857-3700

Emergency phone number

-

2. Hazard Identification**GHS classification of the substance/ mixture**

This substance or mixture is not classified as dangerous in GHS

GHS label elements**Signal word**

Not a hazardous substance or mixture

Hazard statements

Not applicable.

Precautionary statements**Prevention**

Not applicable.

Response

Not applicable.

Disposal

Not applicable.

3. Composition/ Information on Ingredients

Substance/ mixture	Mixture (liquid)	CAS No.	Concentration %
Components			
Sodium hydroxide		1310-73-2	<1
Water		7732-18-5	>99

4. First Aid Measures**Description of first aid measure**

Inhalation

Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Eye contact

Check remove contact lenses if possible to do. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion

Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms and effects, both acute and delayed

Not information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media

Water, foam, dry chemical powder, carbon dioxide.

Unsuitable extinguishing media

No information available.

Special hazards arising from the substance or mixture

Gives off irritating or toxic fumes (or gases) in a fire.

When heated to decomposition it emits toxic fumes of sodium oxide.

Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus (SCBA) for firefighting.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required.

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

Environmental precautions

Do not let product enter drains. Keep water away from release.

Stop or control the leak, if this can be done without undue risk.

Methods and materials for containment and cleaning up

Liquid form, collect for reclamation or absorb in vermiculite, dry sand, earth, or a similar material.

For small spills, add absorbent or sand, scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

7. Handling and Storage

Precautions for safe handling

Use personal protective equipment as required.

Avoid contact with eyes and skin.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure Controls/ Personal Protection

Control parameters

Component	ACGIH (TLV)	NIOSH (REL)	OSHA (PEL)
Sodium hydroxide 1310-73-2	- Ceiling: 2 mg/m ³ [1992]	- Ceiling: 2 mg/m ³ - IDLH: 10 mg/m ³	- TWA: 2 mg/m ³ (see 29 CFR 1910.1000 Table Z-1)

ACGIH:

American Conference of Governmental Industrial Hygienists

OSHA:

Occupational Safety and Health Administration

NIOSH IDLH:

The National Institute for Occupational Safety and Health - Immediately Dangerous to Life or Health

Appropriate engineering controls

Use ventilation, local exhaust ventilation.

Personal protective equipment**Respiratory protection**

Use local exhaust or respirator masks.

Skin protection

Protective gloves.

Eye/ face protection

Wear safety goggles, safety glasses, face shield.

Body protection

Chemical suit, boots, aprons.

Work/ hygienic practices

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Appearance and colour	Liquid, colourless
Odour	Odourless
Odour threshold	Not available
pH	12.00-14.00
Freezing point	Not available
Initial boiling point and boiling range	> 100 °C
Flash point	Not flammable
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not available
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	1.00-1.05 at 25 °C
Water solubility	Soluble in water
Partition coefficient: n-octanol/water log Pow	Not available
Auto ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

10. Stability and Reactivity**Reactivity**

Not available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Will not occurred.

Conditions to avoid

Not available.

Incompatible materials

Not available.

Hazardous decomposition products

When heated to decomposition it emits toxic fumes of sodium oxide.

11. Toxicological Information

Numerical measures of toxicity

Classification of health hazards

Acute toxicity

Acute oral toxicity

Not classified.

Acute dermal toxicity

Not classified.

Acute inhalation toxicity

Not classified.

Skin corrosion/ irritation

All ingredients in this mixture are not skin corrosion/ irritation effect.

Serious eye damage/ eye irritation

All ingredients in this mixture are not serious eye damage/ eye irritation effect.

Respiratory or skin sensitization

All ingredients in this mixture are not respiratory or skin sensitization effect.

Germ cell mutagenicity

All ingredients in this mixture are not germ cell mutagenicity effect.

Carcinogenicity

All ingredients in this mixture are not carcinogenicity effect.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA
Sodium hydroxide 1310-73-2	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity

All ingredients in this mixture are not reproductive toxicity effect.

Specific target organ toxicity (single exposure)

All ingredients in this mixture are not specific target organ toxicity (single exposure) effect.

Specific target organ toxicity (repeated exposure)

All ingredients in this mixture are not specific target organ toxicity (repeated exposure) effect.

Aspiration hazard

All ingredients in this mixture are not aspiration hazard effect.

12. Ecological Information

Ecotoxicity

Component	Algae/ aquatic plants	Fish	Crustacea
Sodium hydroxide 1310-73-2	-	- Gambusia affinis (western mosquitofish): LC ₅₀ 125 mg/L/96hr ^{static} - Poecilia reticulata (guppy): NOEC 56 mg/L/96hr	- Cenodaphnia quadrangular (crustacea): LC ₅₀ 40 mg/L/48hr - Daphnia magna (water flea): NOEC 156 mg/L/48hr ^{static}

Acute (short-term) aquatic hazard

Not classified

Long-term aquatic hazard

Not classified

Persistence and degradability

Not available

Bio-accumulative potential

Not available

Mobility in soil

Not available

Other adverse effects

Not available

Environmental effects

Not available

13. Disposal Consideration

Waste treatment methods

Dispose in accordance with local/ national/ international regulations.

Contaminated packaging

Dispose of as unused product.

Dispose of container in accordance with local/ national/ international regulations.

14. Transport Information

International regulation

UN number	UN 1824
UN proper shipping name	Sodium hydroxide solution
Transport hazard class	8
Packaging group	III
Environmental hazards	Not available
Transport in bulk	Not available
Special precautions for user	Not available

15. Regulatory Information

Safety, health and environmental regulations/ legislation specific for the substance or mixture

Thailand

Notification of Ministry of Industry Subject: This chemical not listed on the hazardous List of hazardous substances B.E. 2556 substances inventory. (2013) (Annex 5.1)

Thailand

Notification of Ministry of Labour Subject: List of hazardous chemicals Sodium hydroxide CAS 1310-73-2 (No.1287) B.E. 2556 (2013) Is listed on the hazardous chemicals inventory.

Chemical safety assessment

For this product a chemical safety assessment was not carried out.

16. Other Information

Created October 20, 2023

Reference

- 1) GHS Classification Data from NIH (National Institutes of Health) Web Site: <https://pubchem.ncbi.nlm.nih.gov/>
- 2) GHS Classification Data from European Chemicals Agency (ECHA) Web Site: <https://echa.europa.eu/home>
- 3) <http://www.inchem.org/>
- 4) <https://www.osha.gov/chemicaldata/index.html>
- 5) <https://cfpub.epa.gov/ecotox/>
- 6) Thailand: Notification of Ministry of Industry Subject: List of hazardous substances B.E. 2556 (2013) (Annex 5.1)
- 7) Thailand: Notification of Ministry of Labour Subject: List of hazardous chemicals B.E. 2556 (2013)

NOTE:

This information herein is given in good faith, but no warranty, express or implied, is made. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein. We cannot quarantine that These are the only hazards which exist.