

in accordance with globally harmonized system of classification of chemicals (GHS)

SD-QSHE-002 Rev. 00

Date: 01/07/2020

CAUSTIC SODA MICROPEARLS 99% min.

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name: CAUSTIC SODA MICROPEARLS 99% min.

Chemical name Sodium hydroxide 99%
Chemical formula NaOH
CAS No. 1310-73-2
EC / List no. 215-185-5

Synonym Caustic Soda Beads , Prill , Sodium hydroxide Solid, Sodium hydroxide 99%

Recommended use of the General Chemicals Reagent, Neutralizing agent, Personal care, Food Industry, chemicals Industrial cleaner, Drain opener, Detergent textile, Pulp and paper, Digestion,

Catalyst.

Manufacturing/Importer name: AGC Chemicals (Thailand) Co., Ltd

Distributed by:

Address

944 Mitrtown Office Tower, 14th Floor, Rama 4 Road, Wangmai Sub-District,

Pathumwan District, Bangkok 10330 Thailand

Telephone +66-2092-6499 Fax +66-2092-6455

> 4 Soi G-12, Pakorn Songkrohrad Road, WHA Eastern Industrial Estate (Map-Ta-Phut), Tambol Map Ta Phut, Amphur Muang Rayong, Rayong Province 21150

> > Thailand

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

Fax +66-3868-3576

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

2. HAZARDS IDENTIFICATION

GHS Classification of the substance or mixture:

Factory Address

(Rayong)

PYHSICAL HAZARDS

TRINTERNATIONAL, INC. 22817 102nd Place West

Edmonds, WA 98020, USA

Ph: +1-206-505-3500

24-Hour Emergency - INFOTRAC

1-800-535-5053/001-352-323-3500

Acct # 79932

Flammable solids	Not classified
Pyrophoric solids	Not classified
Self-heating substances and mixtures	Not classified
Substances and mixtures which in contact with water, emit	Not classified
flammable gases	
Oxidizing solids	Classification not possible
Corrosive to Metals	Classification not possible

HEALTH HAZARDS

Skin corrosion/irritation	Category 1A
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity, single exposure	Category 1 (respiratory system)

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment, acute hazard	Category 3
Hazardous to the aquatic environment, long-term hazard	Not classified
Hazardous to the ozone layer	Classification not possible

Pictogram (s):





Signal word: DANGER



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Hazard statement (s):

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H370 Causes damage to organs (respiratory system)

H402 Harmful to aquatic life

Precautionary statement (s):

P260 Do not breathe dust or mist.

P264 Wash hand thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse

SKIN with water [or shower].

P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container to authorized companies.

Other information: None

P310

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS - No	Name	% Weight
1310-73-2	Sodium hydroxide	99% min.

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 all contaminated clothing and shoes immediately. Wash plenty of water for at least 20 minutes.

Get medical attention immediately.

Eye contact Rinse thoroughly with plenty of water for at least 20 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. Shortness of breath.

Skin contact: Redness. Serious skin burns. Blisters
Eye contact: Redness. Pain. Blurred vision. Severe burns.

If swallowed: Abdominal pain. Burns in mouth and throat. Burning sensation in the throat and chest.

Nausea. Vomiting. Shock or collapse.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, CO₂ or water spray.

Unsuitable extinguishing media: None



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Special hazards arising from the substance or mixture:

Not combustible. Contact with moisture or water may generate sufficient heat to ignite combustible materials. Risk of fire and explosion on contact with incompatible substances.

Contact with metals may form Hydrogen gas which is flammable and can result in explosion

Special protective equipment and precautions for fire-fighters:

Wear full chemical resistant clothing with self-contained breathing apparatus (SCBA) for fire fighting. Use water spray to keep fire-exposed containers cool. Do NOT get water inside containers. Containers may explode when heated

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust and involved to other chemicals.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions:

Do not let this chemical enter the environment.

Methods and materials for containment and cleaning up:

Wear protective equipment to prevent skin and eye contact and breathing in dust.

Work up wind or increase ventilation.

Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. Caution - heat may be evolved on contact with water.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid skin and eye contact and breathing in dust.

Provide adequate ventilation during use.

There is a risk of splash-back causing injury if this product is added to HOT water.

Avoid causing the spread of dust from the product

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Store in a cool, dry, well ventilated place and out of direct sunlight. Store

away from foodstuffs and volatile materials.

Other: None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with occupational exposure limits to be monitored:

Ingredient name: Sodium Hydroxide

Occupational Exposure Limit (OEL)

8-hour TWA		8-hou (ST)	HTLV© or TWA STEL ceiling	Thai reg TW (ST) S (C) Ce	A TEL		
PEL-TWA	2 mg/m³	REL-TWA	-	TLV-TWA	-	TLV-TWA	2 mg/m ³
PEL-STEL	-	REL-STEL	-	TLV-STEL	-	TLV-STEL	-
PEL-C	-	REL-C	2 mg/m³	TLV-C	2 mg/m³ [1992]	TLV-C	-
		IDLH	10 mg/m ³				

mg/m³ = milligram per cubic meter

TWA = Time-Weighted Average PEL = Permissible Exposure Limit

STEL = Short-term Exposure Limit

C = Ceiling

REL = Recommended Exposure Limits

IDLH = Immediately Dangerous To Life or Health

Thai regulation = The announcement of the Department of Labour Protection an Welfare: Exposure limit of hazardous chemical B.E.2560



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Appropriate engineering controls:

Ensure ventilation is adequate to maintain concentrations below Exposure Standards.

Avoid generating and breathing in dusts.

Use with local exhaust ventilation.

Personal protective equipment:

Respiratory protection: Dust mask/Respiratory protection mask

Eye/face protection: Safety goggles or face shield
Skin protection: Natural rubber, neoprene, nitrile
Body Protection: Proper protective clothing

Hygienic Practices:

Wash contaminated clothing before reuse.

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

Do not eat, drink, or smoke during work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid, white
Odor:	Odourless
Odor Threshold:	No data available
pH:	>13 (5% solution) at 25°C
Melting point/freezing point:	318 °C
Boiling point:	1388 °C
Flash point:	Not applicable
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	Not applicable
Vapor pressure:	100 mmHg @ 1111 °C
Vapor density (Air = 1):	No data available
Relative density (Water = 1):	2.13 g/cm³ @ 20 °C
Water solubility:	Very soluble (111g/100 ml) at 20°C
Partition coefficient: n-octanol/water	No data available
(Log K _{ow}):	
Auto ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	Not applicable
Molecular mass:	40 g/mol

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal ambient handling conditions. Rapidly absorbs Carbon dioxide from the

air, forming Sodium carbonate. Absorbs moisture from the air

Reacts with Ammonium salts, evolving Ammonia gas. In the presence of moisture, the

material is corrosive to Aluminium, Lead, Zinc and Tin producing highly flammable

Hydrogen gas.

May react violently with acids and chlorinated hydrocarbons. Can react vigorously with water.

Possibility of hazardous reactions:

It reacts violently with acid and is corrosive to metals such as Aluminium, Tin, Lead and Zinc. This produces a combustible/explosive gas (Hydrogen). Reacts with Ammonium salts.

This produces Ammonia.

Conditions to avoid: Moisture, heat, direct sunlight.

Incompatible materials: Ammonium salts, acids, Ahlorinated hydrocarbons, Aluminium, Zinc, Lead, Tin, and their

alloys.

Hazardous decomposition products:

Sodium oxide



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11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral LD50 : No data available
Vapor inhalation LC50 : No data available
Dermal LD50 : No data available
Skin corrosion/irritation: Corrosive to skin.

Serious eye damage/eye irritation:

Risk of serious damage to eyes.

Sensitization, respiratory:

No data available

Sensitization,Skin:

No skin sensitization potential

Germ cell mutagenicity:

Not classified

Carcinogenicity:

This product is not considered to be a carcinogen by the International Agency

for Research on Cancer (IARC)

Reproductive toxicity:

No data available

Specific target organ toxicity, single exposure:

Based on a report that acute exposures involving inhalation of dusts or mists may cause mucous membrane irritation with subsequent cough and dyspnea; and that intense exposure may result in pulmonary edema and shock (PATTY

(5th, 2001))

Specific target organ toxicity, repeated

exposure:

No data available

Aspiration hazard : No data available

Symptoms related to the physical, chemical and toxicological characteristics;

Serious local effects by all routes of exposure. A harmful concentration of airborne particles can be

reached quickly when dispersed.

Immediate effects : Chronic effects :

The substance is corrosive to the eyes, skin and respiratory tract. Corrosive on ingestion.

Repeated or prolonged contact with skin may cause dermatitis.

The derived no effect level (DNEL) = 1 mg/m³ irritation (respiratory tract)

12. ECOLOGICAL INFORMATION

Ecological toxicity

Fish toxicity (LC50) 48h-LC50 = 40 mg/L for Crustacea (Cenodaphnia quadrangular) (SIDS, 2004).

Daphnia toxicity (EC50)

Persistence and degradability:

Bioaccumulative potential:

No data available

No data available

Hazardous to the ozone layer: This substance is not listed in Annexes to the Montreal Protocol.

Mobility in soil:No data availableOther adverse effects:No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Dispose of all contained and contaminated spill residue in accordance with local regulations.

Contaminated packaging

Contaminated packaging material should be treated equivalent to residual chemicals. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.



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14. TRANSPORT INFORMATION

ADR:

UN number: 1823

Proper shipping name: SODIUM HYDROXIDE, SOLID

Transport hazard class: 8
Packaging group: || Hazard identification number: 80

IMDG:

UN number: 1823

Proper shipping name: SODIUM HYDROXIDE, SOLID

Transport hazard class: 8
Packaging group: II
Marine pollutant: No

EmS: F-A , S-B

ICAO / IATA:

UN number: 1823

Proper shipping name: SODIUM HYDROXIDE, SOLID

Transport hazard class: 8
Packaging group: ||

15. REGULATORY INFORMATION

Thailand Regulations:

Ministry of Labor

Notification of the Department of Labour Protection an Welfare: List of hazardous chemical B.E.2556

- This substance is listed in the hazardous chemicals list no. 1288

Ministry of Industry

Notification of Ministry of Industry: List of hazardous substance B.E.2556

- This substance is listed in the hazardous substance List 5.1 : Hazardous substance Type 1

Ministry of Public Health

Notification of Ministry of Public Health: Food Additives

- Food serial number : 21-1-00942-1-0002

- Sodium hydroxide (INS No. 524)

Ministry of Defence

Notification of Ministry of Defence: Determine armament that requires permission B.E.2551

- This substance is not listed in the Armemament.

U.S.A Regulations:

TSCA CAS#1310-73-2 is listed on the TSCA inventory.

16. REGULATORY INFORMATION

Revised: 00

Created: July 1, 2020

This product is not designed for any specific applications such as medical use including pharmaceutical use, etc. This Safety Data Sheet is provided only for your information, consideration and examination. AGC Chemicals (Thailand) Co., Ltd. provides no warranties, either express or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.