

## AGC VINYTHAI

### 1. Identification

|   |   |
|---|---|
| <b>Product identifier</b>                                     | <b>CAUSTIC SODA MICROPEARLS 99% min.</b>  |
| <b>Other means of identification</b>                          |   |
| <b>SDS number</b>   | P-SDS-CA-05   |
| <b>CAS number</b>   | 1310-73-2   |
| <b>Synonyms</b>   | Caustic Soda Beads ,Prill , Sodium hydroxide Solid, Sodium hydroxide 99%  |
| <b>Recommended use</b>  | General Chemicals Reagent, Neutralizing agent, Personal care, Food Industry, Industrial cleaner, Drain opener, Detergent textile , Pulp and paper, Digestion, Catalyst.       |
| <b>Recommended restrictions</b>                               | None known.   |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |   |
| <b>Supplier's name</b>  | AGC Vinythai Public Company Limited   |
| <b>Address</b>  | 2, I-3 Road, Map Ta Phut Industrial Estate, Map Ta Phut Subdistrict, Mueang, Rayong District, Rayong 21150 Thailand   |
| <b>Phone</b>  | +66 38 925 000  |
| <b>Fax</b>  | +66 38 683 048  |
| <b>E-mail</b>   | Avt.qhse.sdssupport@agc.com   |
| <b>Website</b>  | www.agcvinythai.com   |
| <b>Emergency telephon number</b>                              | Verisk 3E (Access Code 335170)<br><br>Asia Pacific (TH)+66 21056177<br>Europe (GB)+44 20 35147487<br>Americas (US)+1 760 476 3962<br>Middle East / Africa (US)+1 760 476 3959 |



### Manufacturer's detail

**Manufacturer's name** AGC Vinythai Public Company Limited

**MTP2 Plant address** 4 Soi G-12, Pakorn Songkrohrad Road, WHA Eastern Industrial Estate, Map Ta Phut Subdistrict, Mueang Rayong District, Rayong 21150

**Phone** +66 38 683 573

### 2. Hazard(s) identification

|                              |   |                                   |
|------------------------------|---|-----------------------------------|
| <b>Environmental hazards</b> | Hazardous to the aquatic Environment-Long Term (Chronic) Hazard | Category 3                        |
| <b>Health hazards</b>        | Corrosive to metals   | Category 1                        |
|                              | Acute toxicity, dermal  | Category 4                        |
|                              | Skin corrosion/irritation                                       | Category 1A                       |
|                              | Serious eye damage/eye irritation                               | Category 1                        |
|                              | Specific target organ toxicity, single exposure                 | Category 3 respiratory irritation |
| <b>OSHA defined hazards</b>  | Not classified.   |                                   |

### Label elements



**Signal word** Danger

**Hazard statement** May be corrosive to metals.  
Harmful in contact with skin.  
Causes severe skin burns and eye damage.  
Causes serious eye damage.  
May cause respiratory irritation.  
Harmful to aquatic life with long lasting effects.

## Precautionary statement

**Prevention:** Keep only in original container. Wear protective gloves/ protective clothing/ eye protection/ face protection. Avoid breathing dust/ fume/ gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

**Response:** Absorb spillage to prevent material damage. If on skin: Wash with plenty of water. Call a poison center/doctor if you feel unwell. Specific treatment See Section 4 of the SDS. Take off contaminated clothing and wash it before reuse. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Collect spillage.

**Storage:** Store in corrosive resistant container with a resistant inner liner. Store locked up. Store in a well-ventilated place. Keep container tightly closed.

**Disposal:** Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** None.

## 3. Composition/information on ingredients

### Substances

| Chemical name    | Common name and synonyms   | CAS number | %   |
|------------------|--|------------|-----|
| Sodium hydroxide | Caustic Soda Beads ,Prill , Sodium hydroxide Solid, Sodium hydroxide 99% | 1310-73-2  | ≥99 |

## 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.  |
| <b>Skin contact</b>   | Take off immediately all contaminated clothing.<br>Rinse skin with water/shower.<br>Call a physician or poison control center immediately.<br>Chemical burns must be treated by a physician.<br>Wash contaminated clothing before reuse.   |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes.<br>Remove contact lenses, if present and easy to do.<br>Continue rinsing.<br>Call a physician or poison control center immediately.   |
| <b>Ingestion</b>  | Call a physician or poison control center immediately.<br>Rinse mouth.<br>Do not induce vomiting.<br>If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Burning pain and severe corrosive skin damage.<br>Causes serious eye damage.<br>Symptoms may include stinging, tearing, redness, swelling, and blurred vision.<br>Permanent eye damage including blindness could result.<br>May cause respiratory irritation.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically.<br>Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.<br>Keep victim warm.<br>Keep victim under observation.<br>Symptoms may be delayed. |
| <b>General information</b>  | If you feel unwell, seek medical advice (show the label where possible).<br>Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.<br>Show this safety data sheet to the doctor in attendance.   |

## 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).                      |
| <b>Unsuitable extinguishing media</b>                                | Not available.  |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |

**Fire fighting equipment/instructions**

Move containers from fire area if you can do so without risk.

**Specific methods**

Use standard firefighting procedures and consider the hazards of other involved materials.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away.  
 Keep people away from and upwind of spill/leak.  
 Wear appropriate protective equipment and clothing during clean-up.  
 Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.  
 Ensure adequate ventilation.  
 Local authorities should be advised if significant spillages cannot be contained.  
 For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk.  
 Absorb spillage to prevent material damage.  
 Following product recovery, flush area with water.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid release to the environment.  
 Inform appropriate managerial or supervisory personnel of all environmental releases.  
 Prevent further leakage or spillage if safe to do so.

**7. Handling and storage****Precautions for safe handling**

Do not get in eyes, on skin, or on clothing.  
 Avoid prolonged exposure.  
 Avoid prolonged exposure. When using, do not eat, drink or smoke.  
 Provide adequate ventilation.  
 Wear appropriate personal protective equipment.  
 Wash hands thoroughly after handling.  
 Avoid release to the environment.  
 Wash contaminated clothing before reuse.  
 Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Store locked up.  
 Store in a cool, dry place out of direct sunlight.  
 Store in corrosive resistant container with a resistant inner liner.  
 Store in tightly closed container. Keep only in the original container.  
 Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection****Occupational exposure limits****US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Material                         | Type | Value               |
|----------------------------------|------|---------------------|
| Sodium hydroxide (CAS 1310-73-2) | PEL  | 2 mg/m <sup>3</sup> |

**US. ACGIH Threshold Limit Values**

| Material                         | Type    | Value               |
|----------------------------------|---------|---------------------|
| Sodium hydroxide (CAS 1310-73-2) | Ceiling | 2 mg/m <sup>3</sup> |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Material                         | Type    | Value               |
|----------------------------------|---------|---------------------|
| Sodium hydroxide (CAS 1310-73-2) | Ceiling | 2 mg/m <sup>3</sup> |

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.  
 Eye wash facilities and emergency shower must be available when handling this product.

## Individual protection measures, such as personal protective equipment

|                                       |   |
|---------------------------------------|---|
| <b>Eye/face protection</b>            | Wear safety glasses with side shields (or goggles) and a face shield.   |
| <b>Skin protection</b>                |   |
| <b>Hand protection</b>                | Wear appropriate chemical resistant gloves.   |
| <b>Other</b>                          | Wear appropriate chemical resistant clothing.<br>Use of an impervious apron is recommended.   |
| <b>Respiratory protection</b>         | Chemical respirator with organic vapor cartridge. Wear respirator with dust filter.   |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.   |
| <b>General hygiene considerations</b> | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

## 9. Physical and chemical properties

### Appearance

|  |                         |
|--|-------------------------|
| <b>Physical state</b>                          | Solid.                  |
| <b>Form</b>                                    | Not available.          |
| <b>Color</b>                                   | White                   |
| <b>Odor</b>                                    | Odorless.               |
| <b>Odor threshold</b>                          | Not available.          |
| <b>pH</b>                                      | >13 (5% solution(25°C)) |
| <b>Melting point/freezing point</b>            | 604.4 °F (318 °C)       |
| <b>Initial boiling point and boiling range</b> | 2530.4 °F (1388 °C)     |
| <b>Flash point</b>                             | Not available.          |
| <b>Evaporation rate</b>                        | Not available.          |
| <b>Flammability (solid, gas)</b>               | Not available.          |

### Upper/lower flammability or explosive limits

|  |   |
|--|---|
| <b>Explosive limit - lower (%)</b>             | Not available.                              |
| <b>Explosive limit - upper (%)</b>             | Not available.                              |
| <b>Vapor pressure</b>                          | 100 mm Hg (1111°C)                          |
| <b>Vapor density</b>                           | Not available.                              |
| <b>Relative density</b>                        | 2.13 g/cm <sup>3</sup> (20°C)               |
| <b>Solubility(ies)</b>                         |   |
| <b>Solubility (water)</b>                      | 111 g/100ml (20°C)                          |
| <b>Partition coefficient (n-octanol/water)</b> | Not available.                              |
| <b>Auto-ignition temperature</b>               | Not available.                              |
| <b>Decomposition temperature</b>               | Not available.                              |
| <b>Viscosity</b>                               | Not available.                              |
| <b>Other information</b>                       |   |
| <b>Dynamic viscosity</b>                       | 4 mPa.s (662 °F (350 °C))                   |
| <b>Molecular formula</b>                       | H-Na-O                                      |
| <b>Molecular weight</b>                        | 40 g/mol                                    |
| <b>Surface tension</b>                         | >= 74.35 - <= 101.05 mN/m (64.4 °F (18 °C)) |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | 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. |
| <b>Chemical stability</b>                 | Stable under normal ambient handling conditions. Rapidly absorbs Carbon dioxide from the air, forming Sodium carbonate. Absorbs moisture from the air  |
| <b>Possibility of hazardous reactions</b> | 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.   |

|   |   |
|---|---|
| <b>Conditions to avoid</b>              | Moisture. Heat. Direct sunlight.  |
| <b>Incompatible materials</b>           | Ammonium salts, acids, Aluminium ,Zinc , Lead , Tin , and their alloys. |
| <b>Hazardous decomposition products</b> | Sodium oxide  |

## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** May cause irritation to the respiratory system.

**Skin contact** Causes severe skin burns.  
Harmful in contact with skin.

**Eye contact** Causes serious eye damage.

Draize  
Result: Index 63.2  
Species: Rabbit

**Ingestion** Causes digestive tract burns.

**Symptoms related to the physical, chemical and toxicological characteristics** Burning pain and severe corrosive skin damage.  
Causes serious eye damage.  
Symptoms may include stinging, tearing, redness, swelling, and blurred vision.  
Permanent eye damage including blindness could result.

May cause respiratory irritation.

### Information on toxicological effects

**Acute toxicity** In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Harmful in contact with skin.

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

**Corrosivity**  
Draize  
Result: Index 2.5  
Species: Rabbit

**Serious eye damage/eye irritation** Causes serious eye damage.

**Eye Contact**  
Draize  
Result: Index 63.2  
Species: Rabbit

### Respiratory or skin sensitization

**Respiratory sensitization** Due to partial or complete lack of data the classification is not possible.

**Skin sensitization** Due to partial or complete lack of data the classification is not possible.

**Germ cell mutagenicity** Due to partial or complete lack of data the classification is not possible.

**Carcinogenicity** Due to partial or complete lack of data the classification is not possible.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** Due to partial or complete lack of data the classification is not possible.

**Specific target organ toxicity - single exposure** May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure** Due to partial or complete lack of data the classification is not possible.

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible.

## 12. Ecological information

### Ecotoxicity

| Product                              | Species        | Test Results  |
|--------------------------------------|----------------|---|
| Sodium hydroxide (CAS 1310-73-2)     |                |   |
| <b>Aquatic</b>                       |                |   |
| <i>Acute</i>                         |                |   |
| Crustacea                            | EC50           | Water flea ( <i>Ceriodaphnia dubia</i> ) >= 34.59 - <= 47.13 mg/l, 48 hours |
| Fish                                 | LC50           | Western mosquitofish ( <i>Gambusia affinis</i> ) 125 mg/l, 96 hours         |
| <b>Persistence and degradability</b> | Not available. |   |
| <b>Bioaccumulative potential</b>     | Not available. |   |
| <b>Mobility in soil</b>              | Not available. |   |
| <b>Other adverse effects</b>         | Not available. |   |

## 13. Disposal considerations

|  |  |
|--|--|
| <b>Disposal instructions</b>                 | Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.   |
| <b>Hazardous waste code</b>                  | D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]<br>The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).   |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.   |

## 14. Transport information

|                                     |   |
|-------------------------------------|---|
| <b>DOT</b>                          |   |
| <b>UN number</b>                    | UN1823  |
| <b>UN proper shipping name</b>      | Sodium hydroxide, solid   |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 8   |
| <b>Subsidiary risk</b>              | -   |
| <b>Label(s)</b>                     | 8   |
| <b>Packing group</b>                | II  |
| <b>Environmental hazards</b>        |   |
| <b>Marine pollutant</b>             | No.   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Special provisions</b>           | IB8, IP2, IP4, T3, TP33   |
| <b>Packaging exceptions</b>         | 154   |
| <b>Packaging non bulk</b>           | 212   |
| <b>Packaging bulk</b>               | 240   |
| <b>IATA</b>                         |   |
| <b>UN number</b>                    | UN1823  |
| <b>UN proper shipping name</b>      | Sodium hydroxide, solid   |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 8   |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | II  |
| <b>Environmental hazards</b>        | No.   |
| <b>ERG Code</b>                     | 8L  |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Other information</b>            |   |
| <b>Passenger and cargo aircraft</b> | Allowed with restrictions.  |
| <b>Cargo aircraft only</b>          | Allowed with restrictions.  |

## IMDG

|   |   |
|---|---|
| <b>UN number</b>  | UN1823  |
| <b>UN proper shipping name</b>  | SODIUM HYDROXIDE, SOLID   |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>  | 8   |
| <b>Subsidiary risk</b>  | -   |
| <b>Packing group</b>  | II  |
| <b>Environmental hazards</b>  |   |
| <b>Marine pollutant</b>   | No.   |
| <b>EmS</b>  | F-A, S-B  |
| <b>Special precautions for user</b>   | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable.   |

## DOT



## IATA; IMDG



## 15. Regulatory information

### US federal regulations

#### Toxic Substances Control Act (TSCA)

##### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not Regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium hydroxide (CAS 1310-73-2) Listed.

#### Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous chemical

Yes

##### Classified hazard categories

Corrosive to metal  
Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation  
Specific target organ toxicity (single or repeated exposure)

#### SARA 313 (TRI reporting)

Not regulated.

**Other federal regulations**

|   |   |
|---|---|
| <b>Clean Water Act (CWA)<br/>Section 112(r) (40 CFR<br/>68.130)</b> | Hazardous substance   |
| <b>Food and Drug<br/>Administration (FDA)</b>                       | Total food additive<br>Direct food additive<br>GRAS food additive |

**US state regulations**

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Sodium hydroxide (CAS 1310-73-2)

**International Inventories**

| <b>Country(s) or region</b> | <b>Inventory name</b>  | <b>On inventory (yes/no)*</b> |
|-----------------------------|--|-------------------------------|
| Australia                   | Australian Inventory of Industrial Chemicals (AICIS)                   | Yes                           |
| Canada                      | Domestic Substances List (DSL)   | Yes                           |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                            |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                           |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                           |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                            |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                           |
| Korea                       | Existing Chemicals List (ECL)  | Yes                           |
| New Zealand                 | New Zealand Inventory  | Yes                           |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                           |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                           |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                           |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision.**

**Issue date** 07-31-2023

**Version #** 02

**Disclaimer**

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