

## GHS Safety Data Sheet

SDS No. : BAH02XAEG

Date Issued : 2013/05/24

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### Section 1. Identification of the substance or mixture and of the supplier

#### Product Information

Product name: **BaCO<sub>3</sub> Barium carbonate (γ-type)**

| Product number: | Purity      | Form | Size or Shape |
|-----------------|-------------|------|---------------|
| BAH21XB         | 99.95%(3N5) | —    | —             |

#### Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.

1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284

Phone: +81-49-284-1511 Fax: +81-49-284-1351

Emergency Phone : +81-49-284-1511

Recommended uses and restrictions on use: For research purposes

### Section 2. Hazards identification

#### GHS Classification

| Health Hazards                                                                                                                                                         | Environmental Hazards | Physical Hazards                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity(oral):Category 3<br>Specific target organ toxicity,<br>single exposure: Category1,3<br>Specific target organ toxicity,<br>repeated exposure : Category1 | No data available     | Flammable solids : Not classified<br>Pyrophoric solids : Not classified<br>Self-heating substances and<br>mixtures : Not classified<br>Substances and mixtures which,<br>in contact with water, emit<br>flammable gases : Not classified |

GHS Label: T, C



Pictograms or symbols:

Warning word: **Danger**

| Hazard information                                                                                                                                                                                                                                                                                        | Description of precaution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Toxic if swallowed</b><br><b>Causes damage to organs (nervous system, cardiovascular system, muscular system)</b><br><b>May cause respiratory irritation</b><br><b>Causes damage to organs through prolonged or repeated exposure (cardiovascular system, nervous system, muscular system, kidney)</b> | Avoid breathing dust/fume/vapors. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling.<br>Use only outdoors or in well-ventilated area.<br>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.<br>Rinse mouth.<br>Call a POISON CENTER or doctor/physician if you feel unwell.<br>Protect from sunlight. Store in a cool, dry and well-ventilated place. Keep container tightly closed.<br>Store locked up.<br>Dispose of contents/ container in accordance with local / national regulations. |

### Section 3. Composition / information on ingredients

Chemical or common name: Barium carbonate

Chemical formula: BaCO<sub>3</sub>

Single Substance or Compound: Single substance



High Purity Materials

KOJUNDO CHEMICAL LABORATORY CO.,LTD.

|                  |           |
|------------------|-----------|
| Composition:     | 100%      |
| CAS #:           | 513-77-9  |
| RTECS#:          | CQ8600000 |
| TSCA inventory : | listed    |
| EINECS:          | 2081673   |

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#### Section 4. First aid measures

|               |                                                                                                                                             |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact:  | Promptly wash eyes with plenty of water while lifting the eye lids.<br>Continue to rinse for at least 15 minutes and get medical attention. |
| Skin contact: | Promptly flush contaminated skin with soap or mild detergent and water.<br>Contact physician if irritation continues.                       |
| Inhalation:   | Remove the exposed person immediately and provide fresh air.<br>Get medical attention.                                                      |
| Ingestion:    | Rinse mouth and throat with water. Get medical attention immediately.                                                                       |

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#### Section 5. Fire fighting measures

|                      |                                                                                                                      |
|----------------------|----------------------------------------------------------------------------------------------------------------------|
| Extinguishing media: | The product is not combustible.<br>Use media appropriate for surrounding fire.                                       |
| Fire fighting        | Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire. |

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#### Section 6. Accidental release measures

|                                         |                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal Precautions:                   | Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.                                                                                                                                                                                                                          |
| Environmental hazard precautions:       | Shut off leak if without risk.<br>Prevent flow out to river, etc. so as not to badly affect.                                                                                                                                                                                                                                               |
| Method for containment and cleaning up: | Avoid unnecessary contacts with spills.<br>Indoor leakage: Ventilate as much as possible until the cleaning is completed.<br>Outdoor leakage: Work from the windward and evacuate the leeward crowd.<br>Gather up, pack in closed DOT-approved waste container as much as possible.<br>Carefully collect remnant and move to a safe place. |

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#### Section 7. Handling and storage

##### Precautions to be taken in handling:

|                |                                                                                                                                           |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Safe handling: | Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.<br>Avoid prolonged or repeated exposure. |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|

##### Precautions to be taken in storage:

|                      |                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| General precautions: | Store the material in a sealed container.<br>Store in a cool, dry, well ventilated and dark place away from incompatible materials. |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------|

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#### Section 8. Exposure controls / personal protection

|                     |                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------|
| Exposure guideline: | ACGIH(2019) : No data available<br>OSHA(2006) : No data available                                |
| Facility measures:  | Local ventilation of closed work room or total proper ventilation to prevent inhalation.         |
| Protective ware:    | Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, face shields, protective gloves |



## Section 9. Physical and chemical properties

|                      |                                  |
|----------------------|----------------------------------|
| Color and Form:      | White solid, odorless            |
| Chemical formula:    | BaCO <sub>3</sub>                |
| Formula weight:      | 197.3                            |
| Melting point:       | 1450 °C (decomposes)             |
| Boiling point:       | No data available                |
| Density:             | 4.3 g/cm <sup>3</sup>            |
| Solubility in water: | Insoluble                        |
| Soluble in:          | Acid, ammonium chloride solution |
| Flammability:        | Non-combustible substance        |
| Oxidation:           | No data available                |

## Section10. Stability and reactivity

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Stability:           | Stable in closed container at room temperature. |
| Reactivity           |                                                 |
| Incompatibility:     | Strong acids, bromine trifluoride.              |
| Condition to avoid ; | No data available                               |

## Section11. Toxicological information

|                                  |                                                                                                                                                             |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity(oral):            | GHS : Category 3 ; Toxic if swallowed<br>Rat LD <sub>50</sub> = 418 mg/kg (SIDS(2006)) etc.                                                                 |
| Skin corrosive / irritation:     | GHS : No data available                                                                                                                                     |
| Serious eye damage / irritation: | GHS : No data available                                                                                                                                     |
| Respiratory sensitization:       | GHS : No data available                                                                                                                                     |
| Skin sensitization:              | GHS : No data available                                                                                                                                     |
| Germ cell mutagenicity:          | GHS : No data available                                                                                                                                     |
| Carcinogenicity:                 | GHS : No data available                                                                                                                                     |
| Reproductive toxicity:           | GHS : No data available                                                                                                                                     |
| Specific target organ toxicity   |                                                                                                                                                             |
| —single exposure:                | GHS : Category 1 ; Causes damage to organs. (nervous system, cardiovascular system, muscular system)<br>GHS : Category 3 ; May cause respiratory irritation |
| —repeated exposure:              | GHS : Category 1 ; Causes damage to organ through prolonged or repeated exposure. (cardiovascular system, nervous system, muscular system, kidney)          |
| Aspiration hazard:               | GHS : No data available                                                                                                                                     |

## Section12. Ecological information

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| Ecotoxicity:                         |                                              |
| Hazardous to the aquatic environment |                                              |
| short-term (acute) hazard :          | GHS : No data available                      |
| long-term (chronic) hazard :         | GHS : No data available                      |
| Hazardous to the ozone layer         | GHS : No data available<br>No Freon or Halon |
| Fish toxicity:                       | See above                                    |
| Degradability:                       | No data available                            |
| Bioaccumulative potential:           | No data available                            |
| Mobility in soil:                    | No data available                            |



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**Section 13. Disposal considerations**

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

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**Section 14. Transport information**

UN number: 1564  
IATA shipping name: BARIUM COMPOUND, N.O.S.  
IATA classification: Class 6.1 (Toxic substances)  
IATA packing group: III  
HS code: 2836.60  
Marine pollution: None

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**Section 15. Regulatory information**

TSCA inventory: listed.

Please refer to any other local / national measures that may be relevant.

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**Section 16. Other information**

This SDS is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

The information herein is based on the references we could obtained and the present state of our knowledge, however, this SDS does not always cover all information about the product. Some new information or amendments may be added afterwards.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used. The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.

