Barium carbonate



Hayashi Pure Chemical Ind.,Ltd.

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Safety Data Sheet

1. Chemical product and company identification

Product name Barium carbonate

SDS code A1-01

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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Telephone: 06-6910-7305

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Emergency number 06-6910-7305

Recommended use For research and experimental use only.

Do not use on a human body or for animal medicines, foods, household Restrictions on use

products, cosmetics, etc.

2. Hazards identification

GHS classification

Physical hazards Explosives No classification

> Flammable gases No classification Aerosol No classification Oxidizing gases No classification Gases under pressure No classification Flammable liquids No classification Flammable solids No classification No classification

Self-reactive substances and

mixtures

Pyrophoric liquids No classification Pyrophoric solids No classification Self-heating substances and No classification

mixtures

Substances and mixtures which in contact with water emit flammable

gases

No classification

Oxidizing liquids No classification

Oxidizing solids classification not possible

Organic peroxides No classification

Corrosive to metals classification not possible Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) Category 3

> Acute toxicity (dermal) classification not possible

No classification Acute toxicity (inhalation:gas) Acute toxicity (inhalation:vapors) No classification

Acute toxicity (inhalation:dust/mist) classification not possible Skin corrosion/irritation classification not possible

Serious eye damage/eye irritation classification not possible Respiratory sensitization classification not possible Skin sensitization classification not possible Germ cell mutagenicity classification not possible

Carcinogenicity classification not possible Reproductive toxicity classification not possible

Specific target organ toxicity (single Category 1 (muscle, nervous system, cardiovascular

exposure) system)

Specific target organ toxicity (single Category 3 (Respiratory tract irritation.)

exposure)

Specific target organ toxicity Category 1 (kidneys, muscle, nervous system,

(repeated exposure)cardiovascular system)Aspiration hazardclassification not possible

Environmental Hazardous to the aquatic classification not possible hazards environment, short-term (acute)

Hazardous to the aquatic classification not possible environment, long-term (chronic)

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)





GHS06 GHS08

Signal word (GHS JP) : Danger

Hazard statements (GHS JP) : Toxic if swallowed (H301)

May cause respiratory irritation (H335)

Causes damage to organs (muscle, nervous system, cardiovascular

system) (H370)

Causes damage to organs (kidneys, muscle, nervous system,

cardiovascular system) through prolonged or repeated exposure (H372)

Precautionary statements (GHS JP)

Prevention : Do not breathe dust/fume/gas/mist/vapors/spray. (P260)

Wash hands, forearms and face thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271)

Response : IF SWALLOWED: Immediately call a POISON CENTER or doctor.

(P301+P310)

IF INHALED: Remove person to fresh air and keep comfortable for

breathing (P304+P340)

IF exposed or concerned: Call a POISON CENTER or doctor.

(P308+P311)

Get medical advice/attention if you feel unwell. (P314)

Rinse mouth. (P330)

Storage : Store in a well-ventilated place. Keep container tightly closed.

(P403+P233)

Store locked up. (P405)

Disposal : Dispose of contents/container to hazardous or special waste collection

point, in accordance with local, regional, national and/or international

regulation. (P501)

3. Composition/information on ingredients

Distinction of substance or mixture : Substance

Name	Name Concentration or Concentration range Formula	Formula	Kanpo number		CAS RN
Name		Tormula	CSCL no	ISHL no	OAO KIT
Barium carbonate	≧99.0%, ≦100%	BaCO3	(1)-78	Existing Chemical Substance	513-77-9

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

4. First aid measures

First aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

Get immediate medical advice/attention.

First-aid measures after skin

contact

Remove/Take off immediately all contaminated clothing.

Gently wash with plenty of soap and water.

Get immediate medical advice/attention.

First-aid measures after eye

contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

First-aid measures after ingestion : Rinse mouth.

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media

Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media

Do not use a heavy water stream.

This product is unburnable.

Explosion hazard

May induce explosion of containers by heating.

Hazardous decomposition products

Firefighting instructions

in case of fire

Fire hazard

In case of fire, product may produce irritative or toxic fumes/gases.

If ignited, for the initial fire-fighting, cut off combustion sources, extinguish

fire at a stroke using appropriate fire-extinguishers.

In the case of peripheral fire, quickly remove movable containers to safe

places.

If unable to be moved containers, sprinkle water to containers and

surrounding equipment, etc. to cool.

Avoid (reject) fire-fighting water to enter environment.

Even after extinguishing fire, thoroughly cool containers by using plenty of

water.

Protection during firefighting

Wear appropriate fire-resistant clothing including self contained-

compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Before entering, ventilate the area.

Do not let unauthorized persons come close to the area.

Immediately place the leakage area in isolation, with taking proper

distances for all directions.

Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.

Environmental precautions

Environmental precautions : Avoid release to the environment.

Prevent entry to sewers and public waters.

Methods and Equipment for Containment and Cleaning up

Methods for cleaning up : Take care not to generate dust, sweep it up as much as possible, collect it

in an empty container that can be sealed, and move it to a safe place.

Wash out the spilled area with large amounts of water.

7. Handling and storage

Handling

Technical measures : Work with appropriate personal protective equipment to prevent inhalation

or contact to eyes, skin, and clothing.

Handle with care to prevent leakage, overflowing, or scattering, minimize

generation of mist or vapor, and thoroughly ventilate.

Precautions for safe handling : Do not eat, drink or smoke when using this product.

Thoroughly wash your hands and gargle after handling.

Ensure good ventilation of the work station.

Do not contact, breathe or swallow.

Prevents handling of incompatible

substances or mixtures

Avoid prolonged or repeated exposure.

Storage

Storage conditions : Store locked up.

Store in a well-ventilated place, away from direct sunlight. Keep container

tightly closed and keep away from fire and heat sources.

Material used in

packaging/containers

Airtight container.

Technical measures : Comply with applicable regulations.

Storage temperature : Cool and dark place

8. Exposure controls / Personal protection equipment

Appropriate engineering controls : Cover up tightly the generation source at the handling place or install local

exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

Protective equipment

Respiratory protection : Dustproof mask

Hand protection : Impervious protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)
Skin and body protection : Impervious aprons, Impervious work clothing, Impervious long boots

9. Physical and chemical properties

Physical state : Solid
Appearance : Powder
Color : white
Odor : Odorless

pH : No data available

Melting point : 1740 °C (Decomposition)

No data available Freezing point No data available Boiling point Flash point Not inflammable Auto-ignition temperature No data available Decomposition temperature No data available Flammability No data available Vapor pressure No data available Relative density No data available 4.40 g/cm3 Density

Relative gas density : No data available

Solubility : Insoluble in water, Insoluble in alcohol.

Partition coefficient n- : No data available

octanol/water (Log Pow)

Explosive limits (vol %) : No data available Viscosity, kinematic : No data available Particle characteristics : No data available

10. Stability and reactivity

Reactivity : No data available

Chemical stability : Stable under normal handling conditions.

Possibility of hazardous reactions : May react with oxidizing agents.

Conditions to avoid : Sunlight, heat. Contact with oxidizing agents.

Incompatible materials : Oxidizing agents
Hazardous decomposition : Barium compounds

products

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11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

Barium carbonate		
Acute toxicity (oral)	Category 3	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	No classification	
Acute toxicity (inhalation:dust/mist)	classification not possible	
Skin corrosion/irritation	classification not possible	
Serious eye damage/irritation	classification not possible	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 1 Category 3 (Respiratory tract irritation.)	
STOT-repeated exposure	Category 1	
Aspiration hazard	classification not possible	

12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

Barium carbonate		
Hazardous to Aquatic Environment - Acute Hazard	classification not possible	
Hazardous to Aquatic Environment - Chronic Hazard	classification not possible	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	classification not possible	

13. Disposal considerations

Ecology - waste materials With the detail information of the waste, subcontract its disposal to a

waste disposer authorized by a Prefectural Governor.

Contaminated container and

packaging

Empty the packaging completely prior to disposal.

Empty containers should be taken for recycle, recovery or waste in

accordance with local regulation.

14. Transport information

International Regulations

Transport by sea(IMDG)

UN-No. (IMDG) 1564

Proper Shipping Name (IMDG) BARIUM COMPOUND, N.O.S.

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 6.1 Hazard labels (IMDG) 6.1 Class (IMDG) 6.1 Division (IMDG) 6.1

Special provision (IMDG) 177, 223, 274

Limited quantities (IMDG) 5 kg Excepted quantities (IMDG) E1 P002, LP02 Packing instructions (IMDG) IBC packing instructions (IMDG) IBC08 IBC special provisions (IMDG) В3 Tank instructions (IMDG) T1 Tank special provisions (IMDG) **TP33** Stowage category (IMDG) Α

Properties and observations (IMDG) : White powder, lumps or crystals. Toxic if swallowed, by skin contact or

by inhalation.

10kg

MFAG-No : 154

Air transport(IATA)

UN-No. (IATA) : 1564

Proper Shipping Name (IATA) : Barium compound, n.o.s.

Packing group (IATA) : III
Transport hazard class(es) (IATA) : 6.1
Hazard labels (IATA) : 6.1
Class (IATA) : 6.1
Division (IATA) : 6.1
PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y645

quantity (IATA)

PCA limited quantity max net

PCA packing instructions (IATA) : 670
PCA max net quantity (IATA) : 100kg
CAO packing instructions (IATA) : 677
CAO max net quantity (IATA) : 200kg
Special provision (IATA) : A3, A82
ERG code (IATA) : 6L

Marine pollutant : Not applicable

Regulations in Japan

Regulatory information by sea : Conform to the provisions of the Ship Safety Law. Regulatory information by air : Conform to the provisions of the Civil Aeronautics Law.

MFAG-No : 15

Special transport precautions: When transporting, load containers so that they do not tip over,

damage, drop or collapse. Make sure there is no leak in containers.

15. Regulatory information

National law

Industrial Safety and Health Law : [Date of enforcement: April 1, 2025]

Dangerous or Harmful Substances for Labeling of Chemical Name

etc. (Act Art.57 Para.1, Enforcement Order, Art.18)

Dangerous or Harmful Substances for Notification of Chemical Name

etc. on SDS (Act, Art.57-2, Enforcement Order, Art.18-2)

Barium carbonate

Japanese Poisonous and

Deleterious Substances Control Law

Deleterious Substances (Designated Order Art.2)

Barium compounds. (except for the following substances; i)barium 4-(5-chloro-4-methyl-2-sulfonatophenylazo)-3-hydroxy-2-naphthoate,

ii)barium sulfate)

Fire Service Law : Designation of Materials Requiring Notification (Law Art.9-3, Cabinet

Order on Hazardous Materials Art.1-10 Para 6, Attached Table No.2-

18, Ordinacne No. 2 of 1988, Art.2)

Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Ordinance appendix 1-16

Ship Safety Act : Toxic and infectious substances/Toxic substances (Dangerous Goods

Notification Schedule first second and third Article Dangerous Goods

Regulations)

Civil Aeronautics Law : Toxic and infectious substances/Toxic substances (Hazardous

materials notice Appended Table 1 Article 194 of the Enforcement

Regulations)

Port Regulation Law : Toxic and infectious substances/Toxic substances (Article 21,

Paragraph 2 of Law, Article 12 rule, notice attached table that defines

the type of dangerous goods)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Not applicable

16. Other information

Data sources : Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd.

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).

Other information

The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd. This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.