

Date of issue: 2018/10/17 Date of revision: 2021/10/05

# Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: Barium hydroxide,8-hydrate

SDS No.: 0723E-2

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku,Osaka ,JAPAN Division: Chemical Safety Management Department

Telephone number: +81-6-6946-8061

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#### 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

#### **HEALTH HAZARDS**

Acute toxicity (Oral): Category 4
Skin corrosion/irritation: Category 1

Serious eye damage/eye irritation: Category 1

Specific target organ toxicity - single exposure: Category 2(systemic toxicity)

#### Label elements



# Signal word: Danger HAZARD STATEMENT

Harmful if swallowed

Causes severe skin burns and eye damage May cause damage to organs(systemic toxicity)

#### PRECAUTIONARY STATEMENT

# Prevention

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash contaminated parts thoroughly after handling.

Wear protective gloves, protective clothing or face protection.

Wear eye protection/face protection.

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

# Response

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

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

### Disposal

# Barium hydroxide,8-hydrate,0723E-2,2021/10/05

Dispose of contents/container in accordance with local/national regulation.

#### 3. Composition/information on ingredients

Mixture/Substance selection:

Substance

Ingredient name:Barium hydroxide,8-hydrate

Content (%):97(min)

Chemical formula:Ba(OH)2 • 8H2O

Chemicals No, Japan:1-83

CAS No.:12230-71-6

MW:315.46

Note: The figures shown above are not the specifications of the product.

#### 4. First-aid measures

Descriptions of first-aid measures

#### IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

#### IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water or shower.

If skin irritation or rash occurs: Get medical advice/attention.

#### IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

# IF SWALLOWED

Rinse mouth. Do NOT induce vomiting.

Call a POISON CENTER/doctor/physician if you feel unwell.

# 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

# Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

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

Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.



#### 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Preventive measures for secondary accident

Collect spillage.

#### 7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Do not breathe dust/fume/gas/mist/vapors/spray.

(Protective measures against fire and explosion)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Wear protective gloves, protective clothing or face protection.

Wear eye protection/face protection.

When using do not eat, drink or smoke.

Any incompatibilities

See "10.Stability and Reactivity"

Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.

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

Wash contaminated clothing before reuse.

# Storage

Conditions for safe storage

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

Keep under lock and key.

Container and packaging materials for safe handling

Polyethylene

# 8. Exposure controls/personal protection

Control parameters

Adopted value

(Barium hydroxide,8-hydrate)

ACGIH(1996) TWA: 0.5mg-Ba/m3 (Eye, skin & GI irr; muscular stim)

OSHA-PEL

(Barium hydroxide,8-hydrate)

TWA: 0.5 mg-Ba/m3

Exposure controls

# Barium hydroxide,8-hydrate,0723E-2,2021/10/05

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

Wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

#### 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Crystals

Color: White Odor: Odourless

Melting point/Freezing point: 78°C

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Moderately soluble

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available. Density and/or relative density: 2.18

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

# 10. Stability and Reactivity

Reactivity

Not available.

Chemical stability

May absorb carbon dioxide in air.

Possibility of hazardous reactions

Not available.

Conditions to avoid

Contact with fire source.

Incompatible materials

Not available.

Hazardous decomposition products

Barium compounds



#### 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[GHS Cat. Japan, base data]

(Barium hydroxide,8-hydrate)

rat LD50=308mg/kg (IUCLID, 2000)

Irritant properties

Skin corrosion/irritation

[GHS Cat. Japan, base data]

(Barium hydroxide,8-hydrate)

rabbit severe irritation (IUCLID, 2000)

Serious eye damage/irritation

[GHS Cat. Japan, base data]

(Barium hydroxide,8-hydrate)

rabbit significant irritation (IUCLID, 2000)

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenicity

(Barium hydroxide,8-hydrate)

ACGIH-A4(as Ba)(1996): Not Classifiable as a Human Carcinogen

Reproductive toxicity data is not available.

STOT

STOT-single exposure

[cat.2]

[GHS Cat. Japan, base data]

(Barium hydroxide,8-hydrate)

systemic toxicity (HSDB, 2009)

STOT-repeated exposure data is not available.

Aspiration hazard data is not available.

#### 12. Ecological Information

Ecotoxicity

Ecotoxicity data is not available.

Persistence and degradability

Persistence and degradability data is not available.

Bioaccumulative potential

Bioaccumulative potential data is not available.

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

#### 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.



#### 14. Transport Information

UN No. or ID No.: 1759 UN Proper Shipping Name : CORROSIVE SOLID, N.O.S.

Class or division (Transport hazard class): 8

Packing group: III ERG GUIDE No.: 154

Special provisions No.: 223; 274

IMDG Code (International Maritime Dangerous Goods Regulations)

UN No.: 1759

Proper Shipping Name : CORROSIVE SOLID, N.O.S.

Class or division: 8 Packing group: III

Special provisions No.: 223; 274 IATA Dangerous Goods Regulations

UN No.: 1759

Proper Shipping Name : CORROSIVE SOLID, N.O.S.

Class or division : 8
Hazard labels : Corrosive

Packing group : III

Special provisions No.: A3; A803

Environmental hazards

MARPOL Annex III - Prevention of pollution by harmful substances

Marine pollutants (yes/no): no

# 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture Chemicals listed in TSCA Inventory

Barium hydroxide,8-hydrate

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

# 16. Other information

GHS classification and labelling

Acute Tox. 4: H302 Harmful if swallowed

Skin Corr. 1: H314 Causes severe skin burns and eye damage

STOT SE 2: H371 May cause damage to organs

#### Reference Book

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN

IMDG Code, 2018 Edition (Incorporating Amendment 39–18)

IATA Dangerous Goods Regulations (62nd Edition) 2021

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2021 TLVs and BEIs. (ACGIH)

Supplier's data/information

#### General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling,

# Barium hydroxide,8-hydrate,0723E-2,2021/10/05

and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2020).