

Barium carbonate**11729-1KG**

Version 1.1

Revision Date 01/26/2022

Print Date 05/11/2023

SECTION 1. IDENTIFICATION

Product name : Barium carbonate

Number : 000000020881

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : powder or prill

Color : white

Odor : odourless

Hazard Summary : None known. Results of PBT and vPvB assessment, see chapter 12.5.

Classification of the substance or mixture

Classification of the substance or mixture : Acute toxicity, Category 4, Oral

GHS Label elements, including precautionary statements

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Symbol(s)

:



Signal word

: Warning

Hazard statements

: Harmful if swallowed.

Precautionary statements

: **Prevention:**

Wash skin thoroughly after handling.

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

Response:

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

Rinse mouth.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

: BaCO₃

Chemical nature

: Substance

Chemical name	CAS-No.	Concentration
Barium carbonate	513-77-9	<=100.00 %

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SECTION 4. FIRST AID MEASURES

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
- Inhalation : If breathed in, move person into fresh air. Call a physician if irritation develops or persists.
- Skin contact : After contact with skin, wash immediately with plenty of soap and water. Call a physician if irritation develops or persists.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Remove contact lenses. If eye irritation persists, consult a specialist.
- Ingestion : When swallowed, allow water to be drunk. Call a physician immediately.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO2)
Dry powder
- Specific hazards during firefighting : The product itself does not burn.
Hazardous decomposition products formed under fire conditions.
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
- Further information : Do not use a solid water stream as it may scatter and spread fire.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Avoid dust formation.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing. |
| Environmental precautions | : | Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so. |
| Methods and materials for containment and cleaning up | : | Use mechanical handling equipment.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations. |

SECTION 7. HANDLING AND STORAGE**Handling**

- | | | |
|---|---|--|
| Precautions for safe handling | : | Wear personal protective equipment.
Use only in well-ventilated areas.
Avoid inhalation, ingestion and contact with skin and eyes. |
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |

Storage

- | | | |
|--|---|--|
| Conditions for safe storage, including any incompatibilities | : | Store in original container.
Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: room temperature.
(Ambient temperature: > 0 < 35°C) |
|--|---|--|

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- | | | |
|---------------------|---|--|
| Protective measures | : | Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. |
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Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

Engineering measures : Local exhaust

Eye protection : Safety goggles

Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.

Skin and body protection : Protective suit

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures : General industrial hygiene practice.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Barium carbonate	513-77-9	TWA : Time weighted average	0.5 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Expressed as : as Ba			

Barium carbonate	513-77-9	REL : Recommended exposure limit (REL):	0.5 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Further information	:	Expressed as : as Ba			

Barium carbonate	513-77-9	PEL : Permissible exposure limit	0.5 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Further	:	Expressed as : as Ba			

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information

Barium carbonate	513-77-9	TWA : Time weighted average	0.5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as Ba			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: powder or prill
Color	: white
Odor	: odourless
pH	: 7 - 8 at , 20 °C Note: Saturated solution
Decomposition temperature	: > 1,400 °C
Boiling point/boiling range	: Note: Not applicable
Flash point	: Note: Not applicable
Flammability	: The product is not flammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: negligible

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Density	: ca. 4.4 g/cm ³
Water solubility	: Note: practically insoluble
Partition coefficient: n-octanol/water	: Note: No data available
Ignition temperature	: Note: Not applicable
Auto-ignition temperature	: Note: not auto-flammable
Decomposition temperature	: ca. 1,400 °C Note: Decomposition temperature
Viscosity, dynamic	: Note: Not applicable
Viscosity, kinematic	: Note: Not applicable
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 197.34 g/mol
Bulk density	: 400 - 2,000 kg/m ³

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Avoid dust formation. Protect from contamination. Exposure to moisture
Incompatible materials	: Exothermic reaction with strong acids.
Hazardous decomposition	: Carbon dioxide (CO ₂)

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products

Toxic metal compounds

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 1,690 mg/kg Species: Rat Method: OECD Test Guideline 401
Acute inhalation toxicity	: Note: Not classified due to data which are conclusive although insufficient for classification.
Acute dermal toxicity	: Note: Not classified due to data which are conclusive although insufficient for classification.
Skin irritation	: Note: Not classified due to data which are conclusive although insufficient for classification.
Eye irritation	: Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405
Sensitisation	: Note: Not classified due to data which are conclusive although insufficient for classification.
Repeated dose toxicity	: Note: No data available
Genotoxicity in vitro	: Note: Not classified due to data which are conclusive although insufficient for classification.

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SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : Note: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to daphnia and other aquatic invertebrates : Note: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to algae : Note: Not classified due to data which are conclusive although insufficient for classification.

Elimination information (persistence and degradability)

Biodegradability : Note: The methods for determining biodegradability are not applicable to inorganic substances.

Further information on ecology**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Not dangerous goods

TDG Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

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SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemicals Act (AICC), as amended : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313:

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	: Barium carbonate	513-77-9
SARA 311/312 Hazards	: Acute Health Hazard	
California Prop. 65	: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
New Jersey RTK	: Barium carbonate	513-77-9
Pennsylvania RTK	: Barium carbonate	513-77-9

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1	1
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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