According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.13.2017

Barium Carbonate

SECTION 1: Identification

Product identifier

Product name: Barium Carbonate Product code: BC1477

Recommended use of the product and restriction on use

Relevant identified uses: Laboratory Chemicals Uses advised against: Not determined or not applicable. Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Supplier: United States AquaPhoenix Scientific 860 Gitts Run Rd Hanover PA 17331 (717) 632-1291

Emergency telephone number: United States ChemTel Inc

North America: 1-800-255-3924 International: 01-813-248-0585

SECTION 2: Hazard(s) identification

GHS classification: Acute toxicity (oral), category 4

Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

H302 Harmful if swallowed

Precautionary statements:

P264 Wash skin thoroughly after handling P270 Do not eat, drink or smoke when using this product P301+P330+P312 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. P405 Store locked up P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified:

May cause eye, skin, respiratory system irritation

SECTION 3: Composition/information on ingredients

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Identification	Name	Weight %
CAS number: 513-77-9	Barium carbonate	>98

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway

After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes If symptoms develop or persist, seek medical attention

After swallowing:

Rinse mouth thoroughly Seek medical attention if irritation, discomfort, or vomiting persists Call a POISON CONTROL CENTER or seek medical attention if you feel unwell Do not induce vomiting Rinse mouth and then drink plenty of water

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing

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Refer to Section 8

Special precautions:

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols Avoid contact with skin, eyes and clothing

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation Ensure air handling systems are operational Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Barium carbonate	513-77-9	PEL : 0.5 mg/m3 TWA
ACGIH	Barium carbonate	513-77-9	0.5 mg/m3 TWA
NIOSH	Barium carbonate	513-77-9	0.5 mg/m3 TWA

Biological limit values:

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

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Respiratory protection:

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When necessary, use NIOSH-approved breathing equipment.

General hygienic measures:

Wash hands before breaks and at the end of work. Avoid contact with skin, eyes and clothing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Odor C Odor threshold N	Nhite to gray white powder Odorless Not determined or not available.
Odor threshold	
	Not determined or not available.
n Ll N	
pH N	Not determined or not available.
Melting point/freezing point 8	311 °C
Initial boiling point/range 1	1450 °C
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density N	Not determined or not available.
Relative density 4	1.430 g/cm ³
Solubilities Ir	nsoluble in water.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity N	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

Molecular Weight

197.35

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

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None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Harmful if swallowed Product data: No data available.

Substance data:

Name	Route	Result
Barium carbonate	oral	LD50 - Rat - 418 mg/kg

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed. National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

- Product data: No data available.
- Substance data: No data available.

Aspiration toxicity

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Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available. Other information: No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available. Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN 1564	
UN proper shipping name	Barium Compounds Barium Carbonate	
UN transport hazard class(es)	6.1	Initiation 6
Packing group		
Environmental hazards	None	
Special precautions for user	None	
Passenger air/rail	100 kg	
Cargo aircraft only	200 kg	
Stowage category	A	

International Maritime Dangerous Goods (IMDG)

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Barium Carbonate

UN number	UN 1564	
UN proper shipping name	Barium Compounds Barium Carbonate	
UN transport hazard class(es)	6.1	Indexteen 6
Packing group	Ш	
Environmental hazards	None	
Special precautions for user	None	
EmS number	F-A, S-A	
Stowage category	Category A	
Excepted quantities	E1	
Limited quantity	5 kg	

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN 1564	
UN proper shipping name	Barium Compounds Barium Carbonate	
UN transport hazard class(es)	6.1	Right Research
Packing group	III	
Environmental hazards	None	
Special precautions for user	None	
ERG code	6L	
Excepted quantities	E1	
Passenger and cargo	100 kg	
Cargo aircraft only	200 kg	
Limited quantity	10 kg	

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code			
Bulk Name None			
Ship type	None		
Pollution category	None		

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

513-77-9 Barium carbonate

Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
Yes	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals: Not determined.

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CERCLA: Not determined.

RCRA: The regulatory level is : 100.0 mg/l

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

513	-77-9	Barium carbonate	Not
			Listed
900	5-25-8	Starch, Potato, Reagent Grade	Listed

New Jersey Right to Know:

	i jersey night te n		
Γ	513-77-9	Barium carbonate	Listed
	9005-25-8		Not Listed

New York Right to Know:

9005-25-8 Starch, Potato, Reagent Grade	Not Listed
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Pennsylvania Right to Know:

513-77-9 Barium carbonate Li	Listed	9005-25-8	
	Listed	513-77-9	

California Proposition 65: Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 2-0-0

HMIS: 2-0-0

Initial preparation date: 07.13.2017

End of Safety Data Sheet