



## Safety Data Sheet

Product identifier: **BARIUM CARBONATE**

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

BARIUM CARBONATE

**Synonyms**

CARBONIC ACID, BARIUM SALT BARIUM CARBONATE (BaCO<sub>3</sub>) BARIUM MONOCARBONATE BARIUM CARBONATE (1:1)  
CARBONIC ACID, BARIUM SALT (1:1) C.I. PIGMENT WHITE 10 C.I. 77099 B-29 B-30 BaCO<sub>3</sub> RTECS: CQ8600000

**Chemical Family**

Inorganic salt

**Product Use**

Industrial

**Restrictions on Use**

None known

**Details of the supplier of the safety data sheet:**

**PVS GLOBAL TRADE PVT LTD**

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### Section 2 - HAZARDS IDENTIFICATION

**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Acute Toxicity - Oral - Category 4

**GHS Label Elements**

**Symbol(s)**



**Signal Word**

Warning



**Hazard Statement(s)**

Harmful if swallowed.

**Precautionary Statement(s)**

**Prevention**

Wash 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.

**Storage**

None needed according to classification criteria.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Statement of Unknown Toxicity**

100% of the mixture consists of ingredient(s) of unknown acute toxicity.

**Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

CAS	Component Name	Percent
513-77-9	BARIUM CARBONATE	99.0

**Section 4 - FIRST AID MEASURES**

**Inhalation**

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

**Skin**

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

**Eyes**

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

**Ingestion**

If swallowed, drink plenty of water, do NOT induce vomiting. Get immediate medical attention. Induce vomiting only at the instructions of a physician. Do not give anything by mouth to unconscious or convulsive person.



### **Most Important Symptoms/Effects**

#### **Acute**

Dust may cause irritation.

#### **Delayed**

No information on significant adverse effects

#### **Note to Physicians**

For ingestion, consider gastric lavage.

#### **Antidote**

Sodium sulfate solution, oral, gastric tube; potassium.

## **Section 5 - FIRE FIGHTING MEASURES**

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Use extinguishing agents appropriate for surrounding fire.

### **Special Hazards Arising from the Chemical**

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

### **Advice for firefighters**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

### **Fire Fighting Measures**

Move container from fire area if it can be done without risk. Avoid dust formation. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

## **Section 6 - ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8.

### **Methods and Materials for Containment and Cleaning Up**

Collect spilled material in appropriate container for disposal. Avoid generating dust. Clean up residue with a high- efficiency particulate filter vacuum.

### **Environmental Precautions**

Avoid release to the environment.

## **Section 7 - HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Use methods to minimize dust. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.



### **Conditions for Safe Storage, Including any Incompatibilities**

None needed according to classification criteria.

Store and handle in accordance with all current regulations and standards. Avoid generating dust. Keep separated from incompatible substances.

## **Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Component Exposure Limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

### **EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures**

There are no biological limit values for any of this product's components.

### **ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**

There are no biological limit values for any of this product's components.

### **Engineering Controls**

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

### **Individual Protection Measures, such as Personal Protective Equipment**

#### **Eye/face protection**

Wear chemical safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### **Skin Protection**

Wear appropriate chemical resistant clothing.

#### **Respiratory Protection**

The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA. Measurement Element: Barium (Ba) 5 mg/m<sup>3</sup> Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering facepieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100 or P100. Any supplied-air respirator. 12.5 mg/m<sup>3</sup> Any supplied-air respirator operated in a continuous-flow mode. Any powered, air-purifying respirator with a high-efficiency particulate filter. 25 mg/m<sup>3</sup> Any air-purifying, full- facepiece respirator equipped with an N100, R100, or P100 filter. Any supplied-air respirator with a tight-fitting facepiece that is operated in a continuous-flow mode. Any powered, air-purifying respirator with a tight-fitting facepiece and a high-efficiency particulate filter. Any self-contained breathing apparatus with a full facepiece. Any supplied-air respirator with a full facepiece. 50 mg/m<sup>3</sup> Any supplied-air respirator with a full facepiece that is operated in a pressure- demand or other positive-pressure mode. Emergency or planned entry into unknown concentrations or IDLH conditions - Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an



auxiliary self-contained breathing apparatus operated in pressure- demand or other positive-pressure mode. Escape - Any appropriate escape-type, self-contained breathing apparatus.

**Glove Recommendations**

Wear appropriate chemical resistant gloves.

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Not available	<b>Physical State</b>	solid
<b>Odor</b>	odorless	<b>Color</b>	white
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	811 °C (1492 °F)	<b>Boiling Point</b>	Not available
<b>Freezing point</b>	Not available	<b>Evaporation Rate</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition</b>	Not available	<b>Flash Point</b>	Not available
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition temperature</b>	1300 °C (2372 °F)
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	<0.1 mmHg at 20 °C
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	4.43
<b>Water Solubility</b>	0.0022 %	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Solubility (Other)</b>	Not available
<b>Density</b>	Not available	<b>Physical Form</b>	solid or powder
<b>Taste</b>	tasteless	<b>Molecular Formula</b>	Ba-C-O3
<b>Molecular Weight</b>	197.34		

**Solvent Solubility**

**Soluble**

acetic acid, hydrochloric acid, nitric acid, ammonium nitrate, ammonium chloride solutions

**Insoluble**

alcohol, sulfuric acid



## **Section 10 - STABILITY AND REACTIVITY**

### **Reactivity**

No reactivity hazard is expected.

### **Chemical Stability**

Stable at normal temperatures and pressure.

### **Possibility of Hazardous Reactions**

Will not polymerize.

### **Conditions to Avoid**

Avoid generating dust.

### **Incompatible Materials**

Halogens, combustible materials

### **Hazardous decomposition products**

Oxides of barium, oxides of carbon

## **Section 11 - TOXICOLOGICAL INFORMATION**

### **Information on Likely Routes of Exposure**

#### **Inhalation**

Irritation, cough, difficulty breathing

#### **Skin Contact**

irritation

#### **Eye Contact**

irritation

#### **Ingestion**

Gastrointestinal irritation, metallic taste, bleeding, changes in blood pressure, nausea, vomiting, digestive disorders, diarrhea, headache, drowsiness, dizziness, loss of coordination, blurred vision, blood disorders, heart damage, kidney damage, paralysis

### **Acute and Chronic Toxicity**

#### **Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

#### **BARIUM CARBONATE (513-77-9)**

Oral LD50 Rat 418 mg/kg

#### **Immediate Effects**

Dust may cause irritation.

#### **Delayed Effects**

No information on significant adverse effects



**Irritation/Corrosivity Data**

No data available.

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

No data available.

**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

**Germ Cell Mutagenicity**

No data available.

**Tumorigenic Data**

No data available

**Reproductive Toxicity**

No data available.

**Specific Target Organ Toxicity - Single Exposure**

No target organs identified.

**Specific Target Organ Toxicity - Repeated Exposure**

No target organs identified.

**Aspiration hazard**

No data available.

**Medical Conditions Aggravated by Exposure**

Heart or cardiovascular disorders, respiratory disorders, skin disorders and allergies

**Section 12 - ECOLOGICAL INFORMATION**

**Component Analysis - Aquatic Toxicity**

No LOLI ecotoxicity data are available for this product's components

**Persistence and Degradability**

No information available for the product.

**Bioaccumulative Potential**

No information available for the product.

**Mobility**

No information available for the product.

**Other Toxicity**

No additional information available.



### Section 13 - DISPOSAL CONSIDERATIONS

**Disposal Methods**

Dispose in accordance with all applicable regulations. Hazardous Waste Number(s): D005. Dispose of in accordance with U.S. EPA 40 CFR 262 for concentrations at or above the Regulatory level. Regulatory level- 100.0 mg/L.

**Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components

### Section 14 - TRANSPORT INFORMATION

**US DOT Information: UN/NA #:**

Not Regulated

**IATA Information: UN#:**

Not Regulated

**TDG Information: UN#:**

Not Regulated

**IMDG Information: UN#:**

Not Regulated

### Section 15 - REGULATORY INFORMATION

**U.S. Federal Regulations**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

BARIUM CARBONATE	513-77-9
SARA 313:	1 % de minimis concentration (does not include Barium sulfate CAS 7727-43-7, Chemical Category N040) (related to Barium compounds)

**SARA Section 311/312 (40 CFR 370 Subparts B and C)**

**Acute Health:** Yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactivity:** No

**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
BARIUM CARBONATE	513-77-9	No	No	No	Yes	Yes





**Not listed under California Proposition 65**

**Canadian WHMIS Ingredient Disclosure List (IDL)**

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

BARIUM CARBONATE	513-77-9
	0.1 %

**Component Analysis - Inventory**

**BARIUM CARBONATE (513-77-9)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes

**Section 16 - OTHER INFORMATION**

**NFPA Ratings**

Health: 2 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory, EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law, JP - Japan; Kow - Octanol/water partition coefficient; KECI - Korea Existing Chemicals Inventory, KECL - Korea Existing Chemicals List, KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - Chem ADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorization, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act, TDG - Transportation of Dangerous



**PVS Chemicals**  
Plot No. 99 & 100, IDA, Kadapa-516004,  
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GST : 37AANFP1260E1ZB  
IEC: 0912017015

**Safety Data Sheet**  
**Material Name: BARIUM CARBONATE**

Goods; TSCA - Toxic Substances Control Act; TWA - Time  
Weighted Average; UEL - Upper Explosive Limit; US - United States.

**Other Information**

**Disclaimer:**

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.