

SAFETY DATA SHEET

This SDS complies with OSHA HazCom Standard 29 CFR 1910.1200 (GHS), Canadian Workplace Hazardous Material Information System (WHMIS), Mexico NOM-018-STPS-2015

SECTION 1- PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier:

Product Form: Substance
 Chemical Name: Barium Sulfate

Product Name(s): CIMBAR 325, CIMBAR PC, CIMBAR XF, CIMBAR UF, CIMBAR EX, CIMBAR BF, BARIMITE 200, #22 BARYTES, #44 BARYTES, BARIMITE grades, BARTEX grades, BARTEX OWT, EXBAR W grades, EXBAR HD grades

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: Pigment, filler for paint and plastics.
 Uses Advised Against: Any use other than those identified.

1.3 Details of the supplier of the Safety Data Sheet:

Manufacturer: CIMBAR Resources Inc.
 49-0 Jackson Lake Rd., Chatsworth GA 30705 (Corporate Office)
 Emergency Phone: (800)-852-6868, ext. 1108

SECTION 2- HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

OSHA Regulatory Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity: Category 1A (H350)
 Specific target organ toxicity (STOT)- repeated exposure, category 2 Lungs (H373)


Physical Hazards: Not classified.

Health Hazards: Carcinogenicity category 1A Specific target organ toxicity (STOT)- repeated exposure, category 2 Lungs.

Environmental Hazard: Not classified.

2.2 Label Elements:

GHS-US Labeling:

Hazard Pictogram (Health Hazard)		
Signal Word	Danger	
Hazard Statements	H350	May cause cancer (inhalation)
Precautionary Statements	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P260	Do not breathe dust.
	P280	Wear protective gloves, protective clothing, eye protection, face protection.
	P308+P313/319	If exposed or concerned: Get medical attention/advice.
	P501	Dispose of content and container in accordance with all local, regional, national and international regulations.

*Respirable Silica: The amount of respirable silica (<10 microns) is less than 0.60%.

2.3 Other Hazards: None known.

SECTION 3- COMPOSITION/INFORMATION ON THE COMPONENTS

3.1 Chemical Characterization (Substances):

Chemical	CAS Number	% Weight	Classification
Barium Sulfate	7727-43-7, 13462-86-7	>97	None
Strontium Oxide	1314-11-0	1.0	None
Magnesium Oxide	1309-48-4	1.0	None
Crystalline Silica, quartz	14808-60-7	0.2-1.0	Carc. 1A, *STOT- repeated exposure, category 2

*Specific target organ exposure

3.2 Chemical Characterization (Mixtures): No mixtures.

SECTION 4- FIRST AID MEASURES

4.1 Description of first aid measures:

General Advice: When in doubt or if symptoms are observed, get medical advice.

Inhalation: Move to fresh air. Give symptomatic treatment as necessary.

Skin contact: Wash with soap and water.

Eye contact: Wash with soap and neutral eyewash solution.

Ingestion: Do not induce vomiting. Give up to 200 ml water. In case of persistent symptoms, consult a doctor.

4.2 More important symptoms/effects, acute and delayed: Signs and symptoms may include coughing, gasping, choking and difficulty breathing.

4.3 Indication of immediate medical attention and special treatment needed: If exposed or concerned: Get medical advice/attention. Treatment should be symptomatic and supportive. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

SECTION 5- FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media: Water spray (fog), foam, dry chemical, carbon dioxide (CO2).

Unsuitable Extinguishing Media: None known.

5.2 Special hazards arising from the substance or mixture: Do not breathe dust.

5.3 Advice for Firefighters: In case of fire and/or explosion do not breathe fumes.

SECTION 6- ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Keep unauthorized personnel away. Use personal protection recommended in Section 8.

6.2 Environmental precautions: Avoid dust dispersion to the environment. Prevent leakages from entering

drains and ditches that lead to natural waterways.

- 6.3 Methods and material for containment and cleaning up:** Clean by sweeping or vacuum. Avoid dust generation and spreading of dust.
- 6.4 Reference to other sectors:** Section 8. Exposure controls and personal protection. See Section 13 for additional waste treatment information.

SECTION 7- HANDLING AND STORAGE

- 7.1 Precautions for safe handling: Avoid overexposure-** obtain special instructions before use. Ensure adequate ventilation. Do not breathe dust. Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice.
- 7.2 Conditions for safe storage, including any incompatibilities:** Store in tightly closed original container in a dry place. No incompatible products known.

SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Occupational Exposure Limits

Substance Identification	Type	Value
Barium Sulfate	OSHA PEL (USA)	10 mg/m ³
	ACGIH TLV (USA)	10 mg/m ³
	Canada	0.5 mg/m ³
	Canada- BC TWA	0.5 mg/m ³
Crystalline Silica (Quartz)	OSHA (TWA)	0.05 mg/m ³
	OSHA (action level)	0.025 mg/m ³
	ACGIH (TWA)	0.025 mg/m ³ (respirable fraction)
	NIOSH (TWA)	0.05 mg/m ³ (respirable fraction)
	Canada (TWA)	0.025 mg/m ³ (respirable fraction)
	Canada- BC (TWA)	0.025 mg/m ³ (respirable fraction)
	Canada- Manitoba- OEL (TWA)	0.025 mg/m ³ (respirable fraction)
	Canada- Newfoundland/Labrador-OEL (TWA)	0.025 mg/m ³ (respirable fraction)
	Canada- Nova Scotia-OEL (TWA)	0.025 mg/m ³ (respirable fraction)
	Canada- Prince Edward Island-OEL (TWA)	0.025 mg/m ³ (respirable fraction)
	Mexico (TWA)	0.1 mg/m ³ (respirable fraction)

8.2 Exposure Controls:

Engineering Measures: Engineering methods to prevent or control exposure are preferred. If they are not effective, then suitable personal protective should be used.

Personal Protective Equipment:

Respiratory Protection: The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

Hand Protection: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Body Protection: Wear suitable protective clothing.

Hygiene Measures: Follow general hygiene considerations recognized as common good workplace practices. Wash daily at the end of each shift, and prior to eating, drinking, smoking, etc.

Environmental Exposure Controls: Dispose of in accordance with local regulations.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:	
Physical State:	Solid
Color:	Beige to white.
Specific Gravity:	4.0-4.30.
Odor:	Odorless
Boiling/Melting Point: Point:	N/A
Evaporation Rate:	N/A
Vapor Pressure (mm Hg):	N/A Vapor Density (Air=1): N/A
Solubility in water:	Insoluble in Water
MOHS Hardness:	2.5-3.5
pH:	8-10 @ 10% slurry in water

9.2 Other Information:

Volatile Organic Compound (VOC): 0% (EC/1999/13)

SECTION 10- STABILITY AND REACTIVITY

10.1 Reactivity: No reactivity known.

10.2 Chemical stability: Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions: Hazardous Polymerization- Will not polymerize.

10.4 Conditions to avoid: None known.

10.5 Incompatibility: Strong acids.

10.6 Hazardous decomposition products: None known.

SECTION 11- TOXICOLOGICAL INFORMATION

General Information: Users are advised to consider national occupational exposure limits or other equivalent values.

Information on Likely Routes of Exposure:

Inhalation: Extended inhalation at levels above the workplace limit value can could cause irreversible damage to the lungs (silicosis).

Skin: Contact with dust could cause mechanical irritation or drying of the skin.

Eyes: Avoid contact with eyes. Dust contact with the eyes can lead to mechanical irritation.

Ingestion: Ingestion is not a likely route of exposure.

Aspiration: Not an expected route of exposure.

Symptoms Related to the physical, chemical and toxicological characteristics:

Contact with dust may cause mechanical irritation or drying of the skin. Dust may cause mechanical irritation to eyes. May cause irritation to the respiratory tract.

11.1 Information on toxicological effects:**Barite:**

Oral LD50: 15000 mg/kg (oral rat)

Crystalline Silica:

Oral LD50 500 mg/kg (oral rat)

ACGIH Group 2A- Probably carcinogenic to humans

IARC Group 1- Carcinogenic to humans

Acute Toxicity: Users are advised to consider national occupational exposure limits or other equivalent values.

Chronic Toxicity: Potential occupational carcinogen.

Chronic Effects: Extended inhalation at levels above the workplace limit value may cause irreversible damage to the lungs (silicosis).

Respiratory Sensitization: Could cause respiratory tract inhalation if inhaled.

Serious Eye Damage/Irritation: Dust may cause mechanical irritation to the eyes.

Skin Irritation: Prolonged or repeated contact may dry skin and cause irritation.

Carcinogenicity: Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1).

SECTION 12- ECOLOGICAL INFORMATION

12.1 Ecotoxicity: Not considered harmful to aquatic life.

Crystalline Silica, quartz (impurity)

WGK Classification (VwVwS) 849: nwg

12.2 Persistence/Degradability: Not readily biodegradable.

12.3 Bioaccumulation potential: None.

12.4 Mobility in soil: The product is insoluble in water and will sediment in water systems.

12.5 Results of PBT and vPvB assessment: According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances like Barium Sulfate.

12.6 Other adverse effects: None.

SECTION 13- DISPOSAL

13.1 Waste treatment methods: Dispose of waste and residues in accordance with all applicable local and national regulations.

Contaminated Packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste Codes: Waste codes should be assigned by the user based on the application for which the product was used.

Crystalline Silica, quartz (impurity): WGK Classification (VwVwS) 849: nwg

SECTION 14- TRANSPORT INFORMATION

Mode of Transportation (Road, Water, Air, Rail)

14.1 UN Number: N/A.

14.2 UN Proper shipping name: N/A.

14.3 Transport hazard class(es):

ADR: not classified

IMDG: not classified

ICAO/IATA: not classified

RID: not classified

DOT: not classified

14.4 Packing Group: N/A.

14.5 Environmental hazards: None.

14.6 Special precautions for user: None.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15- REGULATORY INFORMATION

Global Inventories

Pure Substance/Mixture: Substance

Chemical Name	CAS No.	EC No.	REACH Registration No.	AUS (AICS)	CAN (DSL)	China (IECSC)	Japan (ENCS)	S. Korea (ECL)	Mexico	New Zealand	Phil. (PICCS)	Taiwan (TSCI)	TSCA USA
Barium Sulfate	13462-86-7, 7727-43-7	236-664-5	Exempt	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Crystalline Silica	14808-60-7	238-878-4	Exempt	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Chemical Name	CAS No.	SWITZERLAND (CHEMINV)	SWEDEN (KEMI)	NEW ZEALAND (NZIoC)
Barium Sulfate	13462-86-7, 7727-43-7	Y	Y	Y
Crystalline Silica	14808-60-7	Y	Y	Y

US Federal Regulations:

EPA (Crystalline Silica, quartz, impurity)

CERCLA: Not listed

SARA 304: Listed

SARA 313: Listed

SARA 302 RQ, lbs: Not listed

SARA 304: Not listed

SARA 311/312 Hazardous Categorization: Hazardous chemical/ immediate health effects/delayed health effects


Crystalline Silica, quartz (impurity)

Acute Health Hazard: Yes

Chronic Health Hazard: Yes

US State Right-to-Know Regulations

Chemical Name	CAS No.	Cal. Prop 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Barium Sulfate	13462-86-7, 7727-43-7			Y		
Crystalline Silica, quartz (impurity)	14808-60-7	Y	Y	Y	Y	Y

California Proposition 65:  WARNING- This product can expose you to chemicals including silica, crystalline, which is known in the state of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

CANADA (WHMIS): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Crystalline Silica, quartz (impurity): D2A- Very toxic materials 0.1%

REACH STATUS: This product is a naturally occurring mineral substance and is therefore exempt from the registration requirement. (source: EXEMPTIONS FROM THE OBLIGATION TO REGISTER IN ACCORDANCE WITH ARTICLE 2 (7) (b), Annex II, Annex V.

SECTION 16- OTHER INFORMATION\CONTACT
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Acronyms:

EPA = Environmental Protection Agency
TSCA = Toxic Substance Control Act
ACGIH = American Conference of Governmental Industrial Hygienists
IARC = International Agency for Research on Cancer
NIOSH = National Institute for Occupational Safety and Health
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
DOT = Department of Transportation
RCRA = Resource Conservation and Recovery Act

Other Information:

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CIMBAR Resources Inc.
Quality Assurance Department
Phone: 1-800-852-6868
Fax: 770-517-0516
www.cimbar.com