



# SAFETY DATA SHEET

## 1004382 – BARIUM CARBONATE

Hazardous According To Criteria Of WorkSafe Australia

### 1. MATERIAL & SUPPLIER IDENTIFICATION

**PRODUCT NAME:** BARIUM CARBONATE  
**PRODUCT CODE:** 1004382  
**Other Names:**  
**Use:** An inorganic material used in glass coatings on ceramic, steel, aluminium or glass substrates.

**SUPPLIER:** FERRO CORPORATION (AUST.) PTY LIMITED  
**ADDRESS:** 105-115 COCHRANES RD MOORABBIN VIC 3189  
**TELEPHONE:** (03) 9555 9466  
**EMERGENCY PHONE:** (03) 9555 9466 (Normal Business Hours)  
(03) 9796 2194 (After Hours – general information)

### 2. HAZARDS IDENTIFICATION

**HAZARDOUS SUBSTANCE. DANGEROUS GOODS**  
**Hazardous According To Criteria Of WorkSafe Australia**  
For concentrations > 25%

**Xn** - Harmful  
**R22** - Harmful if swallowed.  
**S24/25** - Avoid contact with skin and eyes.

UN No: 1564  
DG Class: 6.1  
Pkg Group: III  
Hazchem Code: 2Z  
Proper Shipping Name: BARIUM COMPOUND, N.O.S.  
Poisons Schedule: S6 Poison

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Name:** BARIUM CARBONATE  
**CAS Number:** 513-77-9

**Ingredients:**

Chemical Entity	CAS No	Proportion %	NOHSC mg/m <sup>3</sup>
Barium Carbonate	513-77-9	> 99	10.0 (Inspirable dust)

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#### 4. FIRST AID MEASURES

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Ingestion: Give plenty of water or milk to drink. Induce vomiting using fingers in throat or IPECAC Syrup (APF). Seek immediate medical attention.  
Inhalation: Move to fresh air. If breathing has stopped, apply artificial respiration and seek medical attention.  
Eye: Rinse thoroughly with plenty of water for at least 15 minutes. Seek medical advice.  
Skin: Wash with soap and plenty of water. If swelling, redness, blistering or irritation occurs seek medical advice.

**Advice to Doctor:** Classed as S6 Poison. Treat symptomatically.

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#### 5. FIRE FIGHTING MEASURES

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**FLAMMABILITY:** Not Flammable.

**Fire/Explosion Hazard:**

Material is not combustible and will not burn in a fire.  
Fire fighters should wear self-contained breathing apparatus.

**Extinguishing Media:**

Use water spray, dry chemical, CO<sub>2</sub>, or foam as required for fighting surrounding fire..

**HAZCHEM CODE:** 2Z

**Emergency Action Guide:** 37

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#### 6. ACCIDENTAL RELEASE MEASURES

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**Spills and Disposals:**

Transfer material via scoop or vacuum to closed containers for re-use or disposal.  
Minimise the generation of dusts.  
Wear apron, rubber gloves, chemical goggles or safety glasses.  
Wash clothes before re-use.  
No special environmental precautions required.

Disposal should be in accordance with local, state, and federal regulations.

**Emergency Action Guide:** 37

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#### 7. HANDLING & STORAGE

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Classified as 6.1 Harmful Dangerous Goods for the purposes of storage and transport according to ADG Code and must be stored accordingly (refer State Regulations). Store in a cool, dry, well ventilated area away from food, drink and animal feeding stuffs. Not to be loaded with oxidising agents (Class 5) or foodstuffs.

Wear personal protective equipment and wash thoroughly after handling.

Containers are to be kept closed when not in use to avoid generating dusts and minimise contamination.

Product is a Scheduled Poison (S6) and therefore must be stored, maintained and used in accordance with the relevant State Poisons Act.

**Work Practices:**

Avoid generating dusts and fumes.

Do not breathe dust or fumes.

Use only with adequate ventilation.

Wash thoroughly before eating, drinking, smoking, or applying cosmetics.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Exposure Standards (AIR):

CAS# 513-77-9	Barium compounds, insoluble Schedule 6 Poison (SUSDP)
CAS# Not listed	Nuisance dusts NOHSC TWA: 10.0 mg/m <sup>3</sup> (Inspirable dust)

### Engineering Controls:

Use local exhaust ventilation.  
Ventilation is to be adequate to capture the material at the source, and to ensure that the working environment is below the TWA value by using a local exhaust system.

### PERSONAL PROTECTION

**Respiratory Protection:** A particulate respirator Class P2 conforming to AS1716 suitable for dust should be worn when this material is being used.

**Protective Gloves:** Cotton work gloves should be worn.

**Eye Protection:** Wear general use industrial goggles or safety glasses.

**Clothing:** Clean full-length overalls should be worn.

**Safety Boots:** Safety boots should be worn.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance:	GRANULAR POWDER
Colour:	WHITE
Odour:	NO ODOUR
Melting/Softening Point:	1300 C DECOMPOSES
Specific Gravity:	APPROX. 4.29
Vapour Pressure:	NOT APPLICABLE
Flashpoint:	NOT APPLICABLE
Flammability Limits:	DOES NOT BURN
Solubility in water:	INSOLUBLE

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## 10. STABILITY AND REACTIVITY

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Stable at normal ambient conditions.

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**11. TOXICOLOGICAL INFORMATION**

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**Toxicity Data:**

ORAL: LD<sub>50</sub>(rat) = 418mg/kg  
Lowest Lethal Dose (human) = 57mg/kg

DERMAL: NO DATA FOUND

INHALATION: NO DATA FOUND

CARCINOGENICITY: This material is not considered to be a carcinogen by the Occupational Safety and Health Administration or the International Agency for Research on Cancer

**Health Effects:** Short-term exposure by ingestion is considered to be toxic.

**Acute:**

Ingestion: Can result in vomiting, diarrhoea, slow pulse rate and abdominal pain. Severe poisoning can result in convulsive tremors, increased blood pressure, stomach ulcers, muscular paralysis, cardiac irregularities, and possible death.

Inhalation: Breathing dust may cause respiratory irritation and discomfort.

Eye: Dust may irritate the eyes – acts as a nuisance dust.

Skin: Dust may irritate the skin – acts as a nuisance dust.

**Chronic:** No information available.

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**12. ECOLOGICAL INFORMATION**

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**Persistence / Degradability:** No information available

**Mobility:** No information available.

**Bioaccumulative Potential:** No information available

**Environment Protection:** No information available

**Acute Toxicity** No information available

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**13. DISPOSAL CONSIDERATIONS**

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Disposal should be in accordance with local, state, and federal regulations.

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**14. TRANSPORT INFORMATION**

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**Land Transport ADG:**

UN No: 1564  
DG Class: 6.1  
Pkg Group: III  
Hazchem Code: 2Z  
Proper Shipping Name: BARIUM COMPOUND, N.O.S. (BARIUM CARBONATE)

**Marine Transport IMDG:**

UN No: 1564  
DG Class: 6.1  
Pkg Group: III  
Proper Shipping Name: BARIUM COMPOUND, N.O.S. (BARIUM CARBONATE)

**Air Transport ICAO/IATA:**

UN No: 1564  
DG Class: 6.1  
Pkg Group: III  
Proper Shipping Name: BARIUM COMPOUND, N.O.S. (BARIUM CARBONATE)

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**15. REGULATORY INFORMATION**

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Refer Section 2 – Hazards Identification

Poisons Schedule: S6 Poison

Chemical Inventory Information:

AICS: Listed

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**16. OTHER INFORMATION**

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Compiled by: Don Goff – Group Leader Development  
Date prepared: 23/3/2005  
Date Revised: 4/2/2010

Revision Changes: Five year review.  
Ecological information updated.  
Transport information updated  
AICS listing added.  
Emergency Action Guide added.

**KEY:**

ACGIH: American Conference of Governmental Industrial Hygienists  
ADG Code: Australian Code for Transport of Dangerous Goods  
IMDG Code: International Maritime Code for Transport of Dangerous Goods  
NOHSC: National Occupational Health and Safety Commission  
STEL: Short Term Exposure Limit  
TLV: Threshold Limit Value  
TWA: Time Weighted Average

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