BMS MineRoad-Rapid

SAFETY DATA SHEET

1 IDENTIFICATION OF THE MATERIAL & SUPPLIER

1.1 Product Identifier

Product Name: BMS MineRoad-Rapid.

Synonym(s): Rapid Roadway Repair.

1.2 Uses & Uses Advised Against

Use(s): Roadway repair in underground mines and tunnels.

1.3 Details of the Supplier of the Product

Supplier Name: BMS Specialty Cements Pty Ltd

Address: 9 Holt Drive, Torrington QLD 4350, Australia

Phone: +61 428 278 102

Email: info@bmscement.com

Website: www.bmscement.com

1.4 Emergency Telephone Number(s)

Emergency: 13 11 26 (Australian Poisons Information Centre).

2 HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO AUSTRALIAN WHS REGULATIONS.

GHS Classification(s):

- Skin Corrosion/Irritation [Category 2].
- Serious Eye Damage/Eye Irritation [Category 1].
- Specific Target Organ Systemic Toxicity (Single Exposure) [Category 3 Respiratory Irritation].

BMS MineRoad-Rapid

2.2 Label Elements

Signal Word: DANGER

Pictogram(s):

Hazard Statement(s):

H315:	Causes skin irritation.
H318:	Causes serious eye damage.
H335:	May cause respiratory irritation.

Prevention Statement(s):

P260:	Do not breathe dust/fume/gas/mist/vapours/spray.
P264:	Wash thoroughly after handling.
P271:	Use only outdoors or in a well-ventilated area.
P272:	Contaminated work clothing should not be allowed out of the workplace.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.

Response Statement(s):

P302 + P352:	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340:	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310:	Immediately call a POISONS INFORMATION CENTRE or doctor.
P362:	Take off contaminated clothing and wash before re-use.

Storage Statement(s):

P403 + P233:	Store in a well-ventilated place. Keep container tightly closed.
P405:	Store locked up.

Disposal Statement(s):

P501: Dispose of contents/container in accordance with relevant regulations.

2.3 Other Hazards

No information provided.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances/Mixtures

Ingredient	CAS Number	Content
Quartz (Crystalline Silica)	14808-60-7	40 to 60%
Portland Cement	65997-15-1	20 to 50%
Calcium-Sulpho-Aluminate (CSA) Cement	12068-35-8	20-30%
Calcium Sulphate	7778-18-9	<10%
Non-Hazardous Ingredients	Not Available	Remainder

4 FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye: If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation: If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion: For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting. Rinse mouth out with water and give plenty of water to drink.

First Aid Facilities: Eye wash facilities and safety shower are recommended.

4.2 Most Important Symptoms and Effects – Both Acute & Delayed

Irritating to the eyes, skin and respiratory system. Chronic over exposure to silica quartz dust may result in silicosis (lung disease). Principal symptoms of silicosis are coughing and breathlessness. Some individuals may exhibit an allergic response upon exposure to this product, possibly due to the trace amounts of chromium present. Crystalline silica and hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1).

4.3 Immediate Medical Attention & Special Treatment Needed

Treat symptomatically.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special Hazards Arising from the Substance or Mixture

Non-flammable. May evolve toxic gases if strongly heated.

5.3 Advice for Firefighters

No fire or explosion hazard exists.

5.4 HAZCHEM Code

None allocated.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment & Emergency Procedures

Wear Personal Protective Equipment (PPE) as detailed in Section 8 of the SDS. Clear area of all unprotected personnel. Contact emergency services where appropriate.

6.2 Environmental Precautions

Prevent product from entering drains and waterways.

6.3 Methods & Materials for Containment & Clean Up

Contain spillage, then collect and place in suitable containers for reuse or disposal. Avoid generating dust.

6.4 Reference to Other Sections

See Sections 8 and 13 for exposure controls and disposal.

7 HANDLING & STORAGE

7.1 Precautions for Handling & Storage

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store in a cool, dry, well-ventilated area, removed from moisture, incompatible substances and foodstuffs. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.

7.3 Specific End Use(s)

No information provided.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Exposure Standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m^3	ppm	mg/m^3
Portland Cement	SWA (AUS)	--	10	--	--
Calcium Sulphate	SWA (AUS)	--	10	--	--
Quartz (Respirable Dust)	SWA (AUS)	--	0.1	--	--

Biological Limits

No biological limit values have been entered for this product.

8.2 Exposure Controls

Engineering Controls: Avoid inhalation. Use in well-ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

PPE:

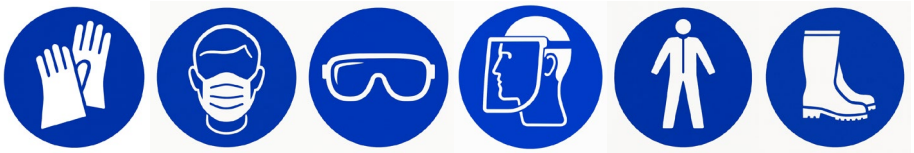
Eye/Face: Wear dust-proof goggles. Full face shield may be required. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

Skin: Barrier creams or skin-cleansing creams, as required.

Hands/Feet: Wear PVC or rubber gloves.

Body: When using large quantities or where heavy contamination is likely, wear coveralls, overalls, or a PVC apron.

Respiratory: Where an inhalation risk exists, wear a Class P1 (Particulate) respirator. At high dust levels, wear an air-line respirator or a full-face Class P3 (Particulate) respirator.



9 PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on Basic Physical & Chemical Properties

Appearance: Light Grey Powder.

Odour: Slight Odour.

Flammability: Non-Flammable.

Flash Point: Not Relevant.

Boiling Point: Not Available.

Melting Point: Not Available.

Evaporation Rate: Not Available.

pH: 12 (Approximately).

Vapour Density: Not Available.

Specific Gravity: Not Available.

Solubility (Water): Reacts.

Vapour Pressure: Not Available.

Upper Explosion Limit: Not Relevant.

Lower Explosion Limit:	Not Relevant.
Partition Coefficient:	Not Available.
Autoignition Temperature:	Not Available.
Decomposition Temperature:	Not Available.
Viscosity:	Not Available.
Explosive Properties:	Not Available.
Oxidising Properties:	Not Available.
Odour Threshold:	Not Available.

10 STABILITY & REACTIVITY

10.1 Reactivity

Carefully review all information provided in Sections 10.2 to 10.6.

10.2 Chemical Stability

Stable under recommended conditions of storage.

10.3 Possibility of Hazardous Reaction

Hazardous polymerisation is not expected to occur.

10.4 Conditions to Avoid

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible Materials

Incompatible with oxidising agents (e.g., hypochlorites), ethanol, acids (e.g., hydrofluoric acid), and interhalogens (e.g., chlorine trifluoride). Water contact may increase product temperature 2°C to 3°C.

10.6 Hazardous Decomposition Products

May evolve toxic gases if heated to decomposition.

11 TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute Toxicity: **Information available for the product:**

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

Information available for the ingredient(s):

Skin:	Irritating to the skin. Contact with powder or wetted form may result in irritation, rash and dermatitis.
Eye:	Irritating to the eyes. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.
Sensitisation:	May cause an allergic skin reaction. Not classified as causing respiratory sensitisation. However, some individuals may exhibit an allergic response upon exposure to cement, possibly due to trace amounts of chromium.
Mutagenicity:	Insufficient data available to classify as a mutagen.
Carcinogenicity:	This product contains crystalline silica and trace amounts of hexavalent chromium compounds which are classified as carcinogenic to humans (IARC Group 1). However, there is sufficient information to conclude that the relative risk of lung cancer from exposure to crystalline silica is increased in persons with silicosis. Therefore, preventing the onset of silicosis will also reduce the cancer risk.
Reproductive:	Insufficient data available to classify as a reproductive toxin.
STOT – Single Exposure:	Irritating to the respiratory system. Over exposure may result in irritation of the nose and throat, with coughing. High level exposure may result in breathing difficulties.
STOT – Repeated Exposure:	Repeated exposure to respirable silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibronodular lung disease caused by deposition in the lungs of fine respirable particles of crystalline silica. Principal symptoms of silicosis are coughing and breathlessness. In the wet state, the likelihood of an inhalation hazard is reduced.
Aspiration:	This product is a solid and aspiration hazards are not expected to occur.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

No information provided.

12.2 Persistence and Degradability

No information provided.

12.3 Bioaccumulative Potential

No information provided.

12.4 Mobility in Soil

No information provided.

12.5 Other Adverse Effects

No information provided.

13 DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste Disposal: Reuse or recycle where possible. Alternatively, ensure product is covered with moist soil to prevent dust generation and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information (if required).

Legislation: Dispose of in accordance with relevant local legislation.

14 TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

Term	Land Transport (ADG)	Sea Transport (IMDG/IMO)	Air Transport (IATA/ICAO)
14.1 UN Number	None Allocated	None Allocated	None Allocated
14.2 Proper Shipping Name	None Allocated	None Allocated	None Allocated
14.3 Transport Hazard Class	None Allocated	None Allocated	None Allocated
14.4 Packing Group	None Allocated	None Allocated	None Allocated

14.5 Environmental Hazards

No information provided.

14.6 Special Precautions for User

HAZCHEM Code: None allocated.

15 REGULATORY INFORMATION

15.1 Safety, Health, and Environmental Regulations/Legislation Specific for the Substance or Mixture

Poison Schedule: A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classification: Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].

Inventory Listing(s): **AUSTRALIA: AICS (Australian Inventory of Chemical Substances).**

All components are listed on AICS or are exempt.

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16 OTHER INFORMATION

Additional Information:

CEMENT CONTACT DERMATITIS: Individuals using wet cement, mortar, grout or concrete could be at risk of developing cement dermatitis. Symptoms of exposure include itchy, tender, swollen, hot, cracked or blistering skin with the potential for sensitisation. The dermatitis is due to the presence of soluble (hexavalent) chromium.

RESPIRATORS: In general, the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations:

Term	Definition
ACGIH	American Conference of Governmental Industrial Hygienists
ADG	Australian Dangerous Goods (Code)
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	EC No - European Community Number
EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
GHS	Globally Harmonised System
GP	General Purpose
GTEPG	Group Text Emergency Procedure Guide
IARC	International Agency for Research on Cancer
mg/m^3	Milligrams per Cubic Metre
OEL	Occupational Exposure Limit
pH	Relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
STOT-RE	Specific Target Organ Toxicity (Repeated Exposure)
STOT-SE	Specific Target Organ Toxicity (Single Exposure)

Term	Definition
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average

References:

AS/NZS 1336 Recommended Practices for Occupational Eye Protection.

AS/NZS 1715 Selection, Use and Maintenance of Respiratory Protective Devices.

AS/NZS 1716 Respiratory Protective Devices.

AS 2161 Industrial Safety Gloves and Mittens (Excluding Electrical and Medical Glove).

Safe Work Australia – Code of Practice - Preparation of Safety Data Sheets for Hazardous Chemicals (February 2016).

Safe Work Australia – Workplace Exposure Standard for Airborne Contaminants.

16.1 Advice Note

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16.2 Document Information

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