

# SAFETY DATA SHEET

Issue Date: 30 May 2022 Version 1.0

## Section 1. Identification

**Product Identifier:** detectORE™ RM Pouch  
Product code: 34000001

**Other means of identification:**

**Recommended use of the chemical and restrictions on use:** To be used with GLIX-20® solution and processed according to instructions as a quality control standard within the detectORE™ gold analysis process. Only to be handled by trained staff. Use only as directed.

**Details of manufacturer or importer:** Portable PPB Pty Ltd  
Unit 2, 42 Tulloch Way, Canning Vale,  
Western Australia, Australia 6155

**Telephone Number:** +61 8 6248 7714

**Emergency Telephone number:** 24 hours - +61 400 217 972 (GMT +8)

## Section 2. Hazards Identification

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail, NON-DANGEROUS GOODS.  
Based on available information, not classified as hazardous according to Safe Work Australia, NON-HAZARDOUS CHEMICAL.  
Dust in/on the supplied product or created when the product is crushed contains crystalline silica some of which may be respirable. This dust is classified as Hazardous according to the HCIS listing of SWA.

**Poisons Schedule (SUSMP):** None allocated.

**Signal Word:** Not applicable

**Hazard Statements:**

H332: Harmful if inhaled (Applies to dust).

**Prevention:**

P261: Avoid breathing dust.

P264: Wash hands and other exposed body parts thoroughly after handling.

P271: Use only outdoors or in well ventilated area.

**Response**

P353: Rinse skin with water/shower.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P341: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Storage**

P403: Store in well ventilated place.

**Disposal**

P501: Dispose of small or large quantities vial local council garbage disposal services. For larger quantities, use a commercial waste disposal service.

**Other hazards**

None

**Hazard Symbols:** Not applicable

**Section 3. Composition and information on ingredients**

Chemical Identity	Synonym	CAS Number	Proportions (%w/w)
Sand containing Crystalline Silica (Quartz)	-	14808-60-7	<90%
Non-Hazardous ingredients (materials)	-	-	To 100%

**Section 4. First aid measures**

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

Have the product label or SDS with you when calling or going for treatment.

**Ingestion:** If swallowed, never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

**Skin Contact:** Remove the contaminated clothing. Rinse the exposed skin thoroughly with water. Clean the contaminated clothing before reusing.

**Inhalation:** If there is exposure to fine dust from product remove source of contamination or move the affected person to a well-ventilated area / fresh air. Ensure airways are clear and have a qualified person to give oxygen through a face mask if breathing is difficult. If irritation persists, seek medical attention.

**Symptoms caused by exposure:** Common symptoms (see section 2 and or in section 11)

**Medical attention and special treatment:** Treat symptomatically

**Section 5. Firefighting measures**

**Suitable extinguishing equipment:**

This material is not combustible. If this material is near fire, use normal conventional firefighting agents and procedures.

**Specific Hazards arising from the chemical:**

Not combustible.

**Special protective equipment and precautions for firefighters:**

Wear self-contained breathing apparatus for firefighting if necessary.

**Hazchem Code:** Not applicable

## Section 6. Accidental release measures

### Personal precautions, protective equipment, and emergency procedures:

Avoid dust formation by not dry sweeping spilled material. For large spills, wet spilled material with water and wear PVC gloves, dust goggles, overalls & a disposable Class P1 respirator (AS/NZS 1715:2009). Collect and dispose of material.

For personal protection see section 8.

### Environmental precautions:

Prevent product from entering storm water and sewer drains.

### Methods and materials for containment and cleaning up:

Contain spillage, then collect and place in suitable containers for reuse or disposal. Spills are best cleaned up by vacuum device to avoid generating airborne dust. Recommendations on Exposure Control and Personal Protection should be followed during spill clean-up.

## Section 7. Handling and storage

### Precautions for safe handling:

Store in a cool and dry area. During storage and transport keep the material away from powerful oxidizing agents such as fluorine and corrosive substances such as hydrofluoric acid.

### Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Do not store near acids.

## Section 8. Exposure controls and personal protection

Component	TWA 8h SWA(AUS)	TWA 5 days	STEL	Peak limitations (If available)
Quartz (respirable silica)	0.05 mg/m <sup>3</sup>			

**Personal Protective Equipment:** Respiratory protection detailed in AS1715 is recommended for quartz exposures above 0.05mg per cubic metre of contaminated air. Prior to the use of a respiratory protective device, employees must be trained in its safe use and maintenance. Safety glasses with side shields should be worn as a minimum protection. Dust goggles should be worn when dust conditions are anticipated.

*Note: As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants. TWA - The time-weighted average airborne concentration of a substance when calculated over an eight-hour working day, for a five-day working week.*

*These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as clear defining points between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.*

### Engineering controls:

Use in well ventilated areas or provide suitable mechanical air extraction system.

### Individual protection measures, for example personal protective equipment (PPE):

Eye and face protection

Use suitable equipment for eye protection.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of

contaminated gloves after use in accordance with applicable laws and good laboratory practices.  
Wash and dry hands.

Respiratory protection

Respiratory protection is required where protection from nuisance levels of dusts is desired, use suitable respirators or dust masks.

Thermal hazards

No data available.

Other information.

Reference standards for (PPE).

Respiratory protection: AS/NZS 1715 and AS/NZS 1716.

Gloves: AS/NZS 2161.1.

Eye protection: AS/NZS 1336 and AS/NZS 1337

## Section 9. Physical and chemical properties

<b>Appearance:</b>	Grey sandy mixture, of fine and coarse solid grains.
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	No data available
<b>pH:</b>	7 (1% solution)
<b>Melting point/freezing point:</b>	1680 °C
<b>Boiling point and boiling range:</b>	No data available
<b>Flash point:</b>	No data available

<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Upper/lower flammability or explosive limits:</b>	Not combustible
<b>Vapour pressure:</b>	No data available
<b>Vapour density:</b>	No data available
<b>Relative density:</b>	2.65
<b>Solubility:</b>	Insoluble
<b>Partition coefficient: n-octanol/water:</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity:</b>	(Solid)

### *Other physical/chemical parameters*

<b>Specific heat value:</b>	No data available
<b>Saturated vapour concentration:</b>	No data available
<b>Release of invisible flammable vapours and gases:</b>	Not combustible
<b>Particle size (average and range):</b>	(30 to 60 micron)
<b>Size distribution:</b>	No data available
<b>Shape and aspect ratio:</b>	No data available
<b>Crystallinity:</b>	No data available
<b>Dustiness:</b>	No data available
<b>Surface area:</b>	No data available
<b>Degree of aggregation or agglomeration, and dispersibility:</b>	No data available

**Redox potential:** No data available  
**Biodurability or biopersistence:** No data available  
**Surface coating or chemistry:** No data available

## Section 10. Stability and reactivity

**Reactivity:** Stable  
**Chemical stability:** Stable under recommended storage conditions  
**Possibility of hazardous reactions:** Avoid oxidising agents and hydrofluoric acid  
**Conditions to avoid:** None  
**Incompatible materials:** Strong oxidizing agents and hydrofluoric acid  
**Hazardous decomposition products:** Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride or manganese trifluoride may cause fires or explosions

## Section 11. Toxicological information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Components	Toxicity
Crystalline Silica (Quartz)	Oral LD50 Rat >22,500 mg/kg

**Ingestion:** No adverse effects expected, however, sand may cause abdominal discomfort.

**Eye contact:** Exposure to the sand dust may cause physical irritation and or inflammation of the eyes.

**Skin contact:** Sand is abrasive and may cause irritation of the skin.

**Inhalation:** Breathing in dust may result in inflammation of the respiratory system.

**Acute toxicity:** No data available

**Respiratory or skin sensitisation:** No data available.

**Chronic effects:** Exposure to respirable quartz in excess of exposure limits has caused silicosis, a progressive lung disease.

**Germ cell mutagenicity:** No data to confirm criteria.

**Carcinogenicity:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

**Reproductive toxicity:** No data available

**Specific target organ toxicity - single exposure:** No data available.

**Specific target organ toxicity - repeated exposure:** No data available.

**Aspiration hazard:** No data available.

Other information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

## Section 12. Ecological Information

**Ecotoxicity:** No data available

**Persistence/degradability:** No data available.

<b>Bioaccumulative potential:</b>	No data available.
<b>Mobility in soil:</b>	No data available.
<b>Other adverse effects:</b>	No information available (environmental fate, ozone depletion, photochemical ozone creation potential, endocrine-disruption potential, and global warming potential.)

### Section 13. Disposal consideration

Dispose of contents and containers in accordance with local and regional waste management regulations.

If possible, reuse or recycle as first option. These sands can be treated as a common waste for disposal to an approved landfill site, in accordance with local authority guidelines.

Keep material out of storm water and sewer drains. Engineering measures should be taken to prevent dust generation during disposal, and exposure and personal precautions should be observed.

### Section 14. Transport Information

#### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail. (ADG Code).

**Special precautions for user:** No data available

#### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

#### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

### Section 15. Regulatory information

Dried Sand is not classified as Dangerous Goods. Classified as Hazardous per the criteria of the National Occupational Health and Safety Commission (NOHSC) Approved Criteria for Classifying Hazardous Substances [NOHSC:1008] 3rd Edition Exposures by inhalation to high levels of dust, that are also regulated under specific State based "Hazardous Substances Regulations, as they are applicable to Respirable Crystalline Silica, requiring exposure assessment, controls and health surveillance (NOHSC).

*(SafeWork Australia classifies dry sand with Cas No 14808-60-7 as a "hazardous chemical").*

**This material is not subject to the following international agreements:**

- Montreal Protocol (Ozone depleting substances)
- The Stockholm Convention (Persistent Organic Pollutants)
- The Rotterdam Convention (Prior Informed Consent)
- Basel Convention (Hazardous Waste)
- International Convention for the Prevention of Pollution from Ships (MARPOL).

**This material/constituent(s) is covered by the following requirements:**

- the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act 1989 (Cwlth) (as amended). **If so, list the relevant Poisons Schedule number** - Not listed.
- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

### Source of data

This SDS has been prepared in accordance the Safe Work Australia Preparation of safety data sheets for hazardous chemicals Code of Practice prepared under the [Work Health and Safety Act and Work Health and Safety Regulations](#).

Code of Practice: Labelling of workplace hazardous chemicals  
'Standard for the Uniform Scheduling of Medicines and Poisons No. 35'

### Hazard Classification

[Australian Inventory of Chemical Substances \(AICS\)](#) (NICNAS)  
[Chemical Assessment Reports](#) (NICNAS)  
[Workplace Exposure Standards for Airborne Contaminants](#)  
[Globally Harmonized System of Classification and Labelling of Chemicals \(GHS\)](#) (United Nations) [Global Portal to Information on Chemical Substances](#) (OECD).  
*OECD means the Organisation for Economic Cooperation and Development.*  
[Hazardous Chemical Information System](#)  
[European Chemicals Agency \(ECHA\)](#)

### Other references

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail.  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.  
Australian Emergency Response Guidebook.

## Section 16. Other Information

Date of preparation: 30 May 2022  
Reason for issue: new formulation issue  
Prepared by Portable PPB Pty Ltd  
[www.portableppb.com](http://www.portableppb.com)

### Key abbreviations or acronyms used

< Less Than.	LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
> Greater Than.	mg/m <sup>3</sup> Milligrams per Cubic Metre
AICS Australian Inventory of Chemical Substances.	NIOSH National Institute for Occupational Safety and Health.
atm Atmosphere.	NOHSC National Occupational Health and Safety Commission.
CAS Chemical Abstracts Service (Registry Number).	30OECD Organisation for Economic Co-operation and Development.
cm <sup>2</sup> Square Centimetres.	ppb Parts per Billion.
deg C (°C) Degrees Celsius.	ppm Parts per Million.
CNS Central Nervous System	psi Pounds per Square Inch.
EC No European Community number.	REACH Regulation on Registration, Evaluation, Authorisation and
g Grams g/cm <sup>3</sup> Grams per Cubic Centimetre.	Restriction of Chemicals.
g/l Grams per Litre.	SWA Safe Work Australia.
IDLH Immediately Dangerous to Life and Health.	STEL Short Term Exposure Limit.
LC50 LC stands for lethal concentration.	
LC50 is the concentration of a material in air which causes the death of 50% (one	

<p>half) of a group of test animals. The material is inhaled over a set period, usually 1 or 4 hours.</p>	<p>TLV Threshold Limit Value. TWA Time Weighted Average. UN United Nations.</p>
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