

1: IDENTIFICATION

Product Name: AustSand Silica Sand **Product Number:** N/A
Brand: AustSand **Index No.:** N/A
CAS No.: N/A
Supplier Name: AustSand Mining Pty. Ltd ACN 065 925 402.
Address: PO Box 1373, Albany WA 6331, Australia
Email: site@austsandmining.com.au
Website: www.austsandmining.com.au

Recommended Uses: Foundry Sand, Glass production

Emergency Telephone: +61 8 9846 1222

2: HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA
NOT CLASSIFIED AS A DANGEROUS GOOD BY CRITERIA OF THE ADG CODE, IMDG OR IATA

GHS Classifications Specific Target Organ Systemic Toxicity (Repeated Exposure) – Category 2.
LABEL ELEMENTS
Pictograms



Signal Word **Warning**
Hazard Statement(s) H373 May cause damage to organs through prolonged or repeated exposure.
PRECAUTIONARY STATEMENTS
Prevention Statements(s) P260 Do not breath dust.
Response Statement(s) P314 Get medical advice/attention if you feel unwell.
Storage Statement(s) None allocated.
Disposal Statement(s) P501 Dispose of contents/container in accordance with relevant regulations.

3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Silica	Aluminium Oxide	Iron Ixide
Content	> 97.0%	< 1.0%	< 1.0%
Chemical Formula	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃
CAS Number	7631-86-9	1344-28-1	1309-37-1

4: FIRST AID MEASURES

Skin	If skin or hair contact occurs, remove contaminated clothing and wash with running water and use soap if available. If symptoms such as irritation persist, seek medical attention.
Eye	If in eyes, flush thoroughly with running water while holding eyelids open for 15 minutes or more. If symptoms such as irritation persist, seek medical attention.
Inhalation	If inhaled, remove from contaminated area and apply artificial respiration if breathing is difficult. If symptom persists, seek medical attention.
Swallowed	If swallowed, rinse mouth and lips. If symptoms such as irritation persist, seek medical attention.
Symptoms of exposure	<p>Product between clothing and skin over time and under pressure can cause chaffing and redness of the skin.</p> <p>Product in the eyes can cause redness of the eye, cause the eyes to water which would result in temporary blurred vision. Excess quantities of sand in the eyes</p> <p>If inhaled and or swallowed, product will cause dryness and irritation of the mouth and throat and if inhaled for extended time in excess concentrations could result in respiratory disease.</p>

Medical Attention and special treatments

First Aid Facilities	Eye wash, shower, hand washing sink, first aid kit.
Advice to Doctor	Treat symptomatically.

5: FIRE FIGHTING MEASURES

Extinguishing media	Use an extinguishing agent suitable for the surrounding fire. Product will not support fire
Specific hazards	Not flammable.
Special procedures	Not combustible.
Hazchem code	None allocated.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear Personal Protective Equipment (PPE) as detailed in Section 8.
Protective Equipment	Machine Operator to operate Heavy Earth Moving Equipment with doors closed to prevent product from entering the cabin.
Environmental precautions	Prevent product from entering drains or waterways.
Methods and materials of cleaning up	For large quantities in outdoor spaces – use front end loader, excavator, road sweeper. For office space best cleaned up by vacuum, if dust generated during sweeping, damp down floor or broom.
Reference to other sections	Section 8 for Exposure Controls Section 13 for Disposal
Emergency Procedures	N/A

7: HANDLING AND STORAGE

Safe handling precautions	Wear eye/face protection and avoid eye or skin contact and inhalation. Not for human consumption Handle with caution during windy conditions.
Safe storage conditions	When stockpiling large volume, make sure products will not fall down. Use water sprinklers where risk of dust becoming airborne is likely. Store indoors away from wind, where possible.

8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

Crystalline Silica (Quartz): 0.05mg/m³ TWA respirable dust
 Total dust of any type, or particle size: 10mg/m³ TWA

Engineering controls

Avoid inhalation, work in well ventilated areas. Mechanical extraction ventilation may be recommended in confined/closed space. Ensure to minimise dust generation and exposures to be maintained below Workplace Exposure Standard.

Personal Protective Equipment

- Eyes** Wear safety glasses for general work around sand, Wear dust-proof goggles where increased exposure risk exists.
- Hands** Wear PVC, rubber or cotton gloves where exposure risk exists.
- Body** Wear protective clothing. Button up shirt where exposure risk exists. Change clothing if exposed to wet or damp condition combined with sand.
- Respiratory** Wear a Class P2 particulate or respirator cartridge dust mask, where an inhalation risk exists.



Biological Monitoring

Workplaces should be monitored for air quality in accordance with the state/country's workplace exposure standards for airborne contaminants and conducted by approved/registered air quality samplers

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Granular white sand
Physical State	Solid
Odour	Odourless
Colour	Generally white to off white in colour.
pH	Approximately 7.0
Flammability	Non-flammable
Flash point	Not applicable
Melting point	1610°C
Boiling point	2230°C
Explosive limits	Not applicable
Specific Gravity	Approximately 2.6g/cm ³
Auto-ignition Temperature	Non Flammable
Decomposition Temperature	Not applicable
Kinematic Viscosity	Solid
Solubility	Soluble in hydrofluoric acid. Not soluble in water
Vapour Pressure	Does not produce vapour
Relative Vapour Density	Does not produce vapour
Particle Characteristics	Large particle size can be angular and defined in its shape, with small particle sizes have the rounded edge. Fine sand will retain more moisture than larger particle size.

10: STABILITY AND REACTIVITY

Reactivity	Will react with strong acids and hydrogen fluoride
Chemical Stability	Stable under normal conditions and temperatures and without contact with strong acids or hydrogen fluoride.
Hazardous Reactions	Will react with strong acid, hydrogen fluoride and extremely high temperatures.
Condition to avoid	Diffusion of dust.
Incompatible materials	Strong acids and hydrogen fluoride.
Hazardous decomposition products	None.

11: TOXICOLOGICAL INFORMATION

Acute (short term) toxicity	No known toxicity data is available.
Skin corrosion/irritation	Contact may result in irritation, redness and rash.
Serious eye damage/irritation	Contact may result in irritation, lacrimation and redness.
Respiratory or skin sensitisation	Not expected or classified as causing acute sensitisation. However, sensitivity to fine dust is expected to cause sneezing.
Germ cell mutagenicity Carcinogenicity	Respirable crystalline silica dust is classified as carcinogenic to humans (IARC Group 1).
Reproductive toxicity	Not classified as causing reproductive toxicity
Specific target organ toxicity (STOT) – single exposure	Not classified as causing organ damage from single exposure.
Specific target organ toxicity (STOT) – repeated exposure	Repeated and prolonged exposure to respirable silica may result in silicosis, which 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.
Aspiration Hazard	See comment in Carcinogenicity. See also section 7 Handling and Storage – safe handling precautions.

12: ECOLOGICAL INFORMATION

Ecotoxicity	Silica Sands pose no ecological risk, is non-toxic to aquatic and terrestrial organisms and is not biodegradable.
Persistence	Product is persistent in all environments.
Degradability	Product is non-degradable in all environments.
Bio accumulative potential	Silica Sand is not expected to bioaccumulate.
Mobility in soil	Low mobility would be expected in a landfill situation.

13: DISPOSAL CONSIDERATIONS

Waste disposal	<p>No containers used in disposal.</p> <p>No chemical or physical properties expected to affect disposal options.</p> <p>Reuse or recycle where possible.</p> <p>Can be disposed in approved Council landfill.</p> <p>Ensure product is kept moist or covered with other materials to prevent dust generation.</p> <p>Personal Protective equipment as specified in Section 8 should be worn appropriate to weather and working conditions.</p>
Legislation	<p>Dispose of in accordance with relevant local legislation.</p>

14: TRANSPORT INFORMATION

UN Number	Not allocated.
Proper shipping or technical name	Not allocated.
Class and Subsidiary Risk	Not allocated.
Packaging Group No.	Not allocated.
Environmental Hazards	Not allocated.
Special Precautions	Transport provider should protect against sand becoming airborne.
Hazchem Code	Not allocated.
Other information	No other information available.

15: REGULATORY INFORMATION

Poison Schedule	Not scheduled.
Classifications	<p>Classified as Non-Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.</p> <p>Classified as Hazardous Substances [NOHSC: 1008] 3rd Edition, according to the Safe Work Australia.</p> <p>Recognised as a carcinogen by the IARC.</p> <p>Persons who have potential for exposure above the NES may be required by regulations to have periodic health surveillance including Chest X-ray.</p>

16: OTHER INFORMATION

Emergency Contact: Poisons Information Centre 13 11 26 (Australia)

Australian Standards 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 gloves)

SDS Date: 28 – March – 2024 - Replaces 26 – June – 2019 edition.

Includes additional headings as set out in Western Australian Department of Mines, Industry Relations and Safety - Code of Practice, Preparation of safety data sheets for hazardous chemicals (no date).

Disclaimer

The information and recommendations contained herein and are based upon data considered to be accurate and reliable at the time of preparation. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by purchase, resale, use or exposure of the products. Customer or users of Silica Sand must comply with all applicable health and safety laws, regulations, orders and advise in this SDS.