

SAFETY DATA SHEET

DE100™

1. IDENTIFICATION

PRODUCT IDENTIFIERS

PRODUCT NAME	DE100™
OTHER NAMES	Amorphous silica, siliceous mineral
PRODUCT CODES	APP
RECOMMENDED USES	Stockfeed additive

DETAILS OF MANUFACTURER

ORGANISATION	BOS WHOLESALE
LOCATION	93 Main St Kandanga QLD 4570 Australia
TELEPHONE	PH: 07 5484 3771 (same for emergency)
EMAIL	EMAIL tim@kandanga.com.au
EMERGENCY TELEPHONE	

2. HAZARD IDENTIFICATION

GHS CLASSIFICATION

Carcinogenicity – category 1A
Specific target organ toxicity (repeated exposure) – category 1

GHS LABEL ELEMENTS



HAZARD

May cause cancer by inhalation
Causes damage to the lungs through prolonged exposure if inhaled

PREVENTION

Read label before use
Do not handle until all safety precautions have been read and understood
Do not breathe dust
Wash hands thoroughly after handling
Do not eat, drink or smoke when using this product
Use personal protective equipment as required

RESPONSE

IF exposed or concerned: Get medical advice / attention or if you feel unwell

STORAGE

Store locked up

DISPOSAL

Dispose of contents/container in accordance with local, regional, national and international regulations

3. COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	PROPORTION
Amorphous silica and other mineral oxides	61790-53-2	>99%
Quartz, Respirable fraction (SiO ₂)	14808-60-7	<1%

4. FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

EYE CONTACT	Flush the contaminated eye(s) with lukewarm, gently flowing water. If irritation persists, seek medical advice.
SKIN CONTACT	If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation persists, seek medical advice.
INGESTION	No known adverse effects if ingested in small quantities. If irritation persists, seek medical advice.
INHALATION	Remove the source of contamination or move to fresh air. If irritation persists, seek medical advice.
TREATMENT	Treat symptomatically based on individual reactions of patient and judgement of doctor.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	The material is non-combustible. Use appropriate fire extinguisher for the surrounding environment.
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	Not applicable, the material is non-combustible.
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS	Not applicable, the material is non-combustible.
HAZCHEM CODE	None allocated

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Personal protective equipment as per section 8 is recommended for all personnel involved with the clean-up, and within a poorly ventilated environment.
EMERGENCY PROCEDURES ENVIRONMENTAL PRECAUTIONS	Not applicable, material is inert. Material does not present environmental concerns.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	Contain and dampen spilled material to avoid airborne dust. Sweep, shovel, or use an industrial vacuum cleaner to remove material and place in container for use or disposal.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Avoid handling practices that promote dust generation. Repair or dispose of broken containers and packaging.
CONDITIONS FOR SAFE STORAGE	Store locked up in a cool, dry, well-ventilated area to maintain packaging integrity. Keep containers and packaging sealed when not in use. Do not store near hydrofluoric acid.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS

EXPOSURE LIMITS

Amorphous silica	10 mg/m ³ TWA* 6 mg/m ³ TWA*	NES, ASCC, NIOSH REL NIOSG REL, Cal/OSHA PEL
Quartz, respirable fraction (SiO ₂)	0.05 mg/m ³ TWA*	NES, ASCC, OSHA, NIOSH REL

*Time weighted average exposure standard (TWA) means the average airborne concentration of a substance over an eight-hour working day, for a five-day working week. A person conducting a business or undertaking must ensure that a worker is not exposed to airborne contaminants above the workplace exposure standard.

ENGINEERING CONTROLS	Use in well-ventilated areas, or use of local exhaust ventilation is recommended for poorly ventilated areas. Carry out work so to minimise dust generation and exposure to dust
BIOLOGICAL LIMITS	No data available.

PERSONAL PROTECTIVE EQUIPMENT

EYE	No additional requirements. Recommended goggles with side shields to prevent eye irritation.
SKIN	No additional requirements.
RESPIRATORY	Use of N95 filtering facepieces or better filters are recommended for airborne exposures to crystalline silica at concentrations less than or equal to 0.5 mg/m ³ . Use of powered air-purifying respirator (PAPR) and M-307 respiratory hardhat recommended for airborne exposures to crystalline silica at concentrations up to 1.25 mg/m ³ . Use of air-purifying full face reusable respirators recommended for airborne exposures to crystalline silica at concentrations greater than 1.25 mg/m ³ .

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Off white
Odour	Odourless
Odour threshold	No data available
pH (20°C, 1:5 water)	8 - 9
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosive limit	No data available
Lower explosive limit	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	2.0
Solubility	Low solubility in water
Auto-ignition temperature	No data available

Decomposition temperature No data available
Viscosity No data available

10. STABILITY AND REACTIVITY

REACTIVITY Not applicable, material is inert.
CHEMICAL STABILITY Not applicable, material is inert.
POSSIBILITY OF HAZARDOUS REACTIONS Not applicable, material is inert.
CONDITIONS TO AVOID Not applicable, material is inert.
INCOMPATIBLE MATERIALS Silica containing materials may react with hydrofluoric acid.
HAZARDOUS DECOMPOSITION PRODUCTS Not applicable, material is inert.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY No data available.
SKIN May cause irritation to skin.
CORROSION/IRRITATION
EYE DAMAGE/IRRITATION May cause irritation to eyes.
RESPIRATORY SENSITISATION Inhalation can cause irritation to the respiratory tract.
GERM CELL MUTAGENICITY
CARCINOGENICITY No data available.
Amorphous silica is not classifiable as to its carcinogenicity to humans (IARC Group 3).
Quartz, (SiO₂), is classified as an IARC Category 1 carcinogen within the respirable fraction.
Test data on the mixture provides sufficient evidence that there is < 1% respirable crystalline silica.
REPRODUCTIVE TOXICITY
CHRONIC EFFECTS No data available.
Prolonged or repeated exposure to this material's dust, or any nuisance dust, may result in irritation to the eyes and respiratory tract. As this product may contain traces of respirable crystalline silica, respiratory equipment (section 8) is required for exposure over the action limit of 25 µg/m³ (OSHA).

12. ECOLOGICAL INFORMATION

ECOTOXICITY No information available.
PERSISTENCE AND DEGRABILITY No information available.
BIOACCUMULATIVE POTENTIAL No information available.
MOBILITY IN SOIL No information available.
OTHER ADVERSE EFFECTS No information available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONTAINERS AND METHODS Waste material to be disposed of at an approved municipal landfill or land application site. No special containers are required.
PACKAGING DISPOSAL Dispose of in accordance with applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

ROAD & RAIL

SEA	Not defined as a Dangerous Good by the Australian Code for the Transport of Dangerous Goods by Road & Rail
AIR	Not a Dangerous Good according to the IMDG Code
	Not a Dangerous Good according to the IATA Dangerous Good Regulations
UN NUMBER	None allocated
PROPER SHIPPING NAME	None allocated
TRANSPORT HAZARD CLASS	None allocated
SUBSIDIARY RISK	None allocated
PACKING GROUP	None allocated
HAZCHEM	None allocated
SPECIAL PROVISIONS	None allocated

15. REGULATORY INFORMATION

POISONS SCHEDULE	Not scheduled (SUSMP)
AICS	Listed - Chemical identified as low concern to human health by application of expert validated rules

16. OTHER INFORMATION

INDICATION OF CHANGES

ORIGINAL ISSUE DATE	08/09/24
REVISION DATE	19/10/22
REVISION NUMBER	12
REASON FOR ISSUE	Update

ABBREVIATIONS OR ACRONYMS USED

AICS	Australian Inventory of Chemical Substances
ASCC	Australian Safety and Compensation Commission
CAS	Chemical Abstracts Service
GHS	Globally Harmonized System of classification and labelling
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
NES	National Occupational Exposure Standard
NIOSH	National Institute for Occupation Safety and Health
OSHA	Occupational Safety and Health Administration
PAPR	Powered air-purifying respirator
REL	Recommended exposure limit
STOT	Specific target organ toxicity
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
TWA	Time weighted average