

SAFETY DATA SHEET

PRODUCT NAME: ULTIMATE TERRA START

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Other Name(s): Terra Start
Recommended use: Soil amendment, fertiliser
Supplier: Baileys Fertilisers
Address: 24 Beach St
 Kwinana
 Western Australia 6167
Telephone: (08) 9439 1688 (Monday to Friday: 8.00am – 5.00pm)
Emergency Contact: Poisons Information Centre on 13 11 26
Facsimile: (08) 9439 1068
Email: baileys@baileysfertiliser.com.au
Website: baileysfertiliser.com.au

2. HAZARD IDENTIFICATION

1. GHS Classification: Hazardous according to Australian Criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

2. Signal Word: **Danger**

3. Hazard Categories: Carcinogenicity Category 1
 Skin Irritation Category 2
 Eye Irritation Category 2B

4. Hazard Symbol:



5. Hazard Statements: H350 May cause cancer
 H315 Causes skin irritation
 H320 Causes eye irritation

6. Precautionary Statements:

Prevention: P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing dust.
 P264 Wash hands, face and other exposed areas thoroughly after handling.
 P280 Wear protective gloves.
 P281 Use personal protective equipment as required.
Response: P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P308 + P313 IF exposed or concerned: Get medical advice / attention.

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P321 Specific treatment – see first aid instructions.

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

P362 Take off contaminated clothing and wash before reuse.

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents/container in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Contents % w/w
Zeolite	1318-02-1	55 – 65
Silica Hydrated (Amorphous Opaline Silica)	7631-86-9	< 0.1
Quartz (Respirable <0.1%)	14808-60-7	< 0.05
Non-hazardous materials	N/A	Remainder

4. FIRST AID MEASURES

Eye Contact: 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.

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

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

Ingestion: For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).

First aid facilities: Eye wash facilities should be available.

Medical Attention and Special Treatment: Treat symptomatically.

5. FIRE FIGHTING MEASURES

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

Extinguishing Media: Use an extinguishing agent suitable for the surrounding fire.

Fire/Explosion Hazard: No fire or explosion hazard exists.

Hazchem Code: Not available.

6. ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Wear suitable protective clothing and personal protection. Carefully sweep up and shovel into suitable containers for reuse/recycle or disposal. Avoid the formation of dust, and wet product before cleaning up if necessary.

7. HANDLING AND STORAGE

Precautions for safe handling: Read label before use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimise dust generation and accumulation. Provide adequate ventilation. Do not breathe dust. Avoid prolonged exposure. Should be handled in closed systems, where possible. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Wash hands before eating. When using, do not eat, drink or smoke. Do not allow to enter drains, sewers or watercourses.

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Conditions for safe storage, including any incompatibilities: Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10). Protect against moisture. If stored in packages, ensure packages are adequately labelled, and check regularly for leaks or spills. Do not store in open or unlabelled containers.

Specific end use(s): No information provided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standard: *Silica Hydrated (Amorphous Opaline Silica)*
– 80 mg/m³ / % SiO₂ TWA OSHA PEL
Quartz (crystalline silica) (respirable <1%)
–30 mg/m³ / % SiO₂+2 (total dust) TWA (OSHA)
–10 mg/m³ / % SiO₂+2 (respirable dust) TWA (OSHA PEL)
–0.025 mg/m³ (respirable dust) TWA (ACGIH TLV)

Engineering Controls: Good ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Personal Protection:

Eye / Face	Safety glasses or goggles recommended.
Hands	Wear protective gloves (latex or nitrile).
Body	Not required under normal conditions of use.
Respiratory	Not required under normal conditions of handling. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment of class P2/P3.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Multi coloured solid.
Bulk Density: Not applicable.
Odour: Mild odour.
pH: Not applicable.
Boiling Point: Not applicable.
Melting Point: Not applicable.
Vapour pressure: Negligible at ambient temperatures.
Flash point: Non-flammable.
Flammability limits: Non-flammable.
Solubility in water: Not soluble in water.
Other: None.

10. STABILITY AND REACTIVITY

Chemical Stability: Material is stable under normal storage and handling conditions.
Conditions to avoid: Extreme heat.

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Incompatible materials: None known.

Decomposition products: May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. May form oxides of phosphorus and other phosphorus compounds. Potassium, manganese iron and other metal compounds.

Hazardous reactions: Hazardous polymerization not expected to occur.

11. TOXICOLOGICAL INFORMATION

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

Ingestion: Swallowing may result in irritation of the gastrointestinal tract.
Eye contact: Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.
Skin contact: May cause skin irritation, resulting in rash or dermatitis.
Inhalation: Breathing in dust may result in respiratory irritation.
Sensitization hazard: Not classified as a skin sensitizer.
Long Term Effects: No information available for the product.
Carcinogenicity: Classified as a Category 1 Carcinogen.
The International Agency for Research on Cancer (IARC), in Monograph 100C has concluded that crystalline silica inhaled in the form of quartz is carcinogenic to humans (Group 1). Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. The National Toxicology Program (NTP) classifies crystalline silica as a known carcinogen. Applications and exposure data indicate that exposure to respirable quartz in this product with normal use is well below the OSHA Permissible Exposure Limit (PEL) and ACGIH Threshold Limit Value (TLV). The manufacturer is not aware of any scientific or medical data available indicating that exposure to respirable crystalline silica from this product under conditions of normal use will cause silicosis or cancer. Adverse effects would not be expected from normal use of this product.
Mutagenic Data: Not classified as a mutagen.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Avoid contaminating waterways, as nutrients in water sources may cause excessive algal growth.
Persistence and degradability: This product is a soil amendment and fertiliser and will react in the soil as such.
Mobility: Fertiliser nutrients are soluble over time and will leach in soil, and dissolve/disperse in water.

13. DISPOSAL CONSIDERATIONS

Disposal: Dispose of in accordance with local regulations, to an approved landfill site. Do not incinerate.

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14. TRANSPORT INFORMATION

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG)	AIR TRANSPORT (IATA / ICAO)
UN Number	None allocated.	None allocated.	None allocated.
Proper Shipping Name	None allocated.	None allocated.	None allocated.
Transport Hazard Class	None allocated.	None allocated.	None allocated.
Packing Group	None allocated.	None allocated.	None allocated.
Hazchem Code	None allocated.	None allocated.	None allocated.

15. REGULATORY INFORMATION

AICS All chemicals listed on the Australian Inventory of Chemical Substances (ACIS).

16. OTHER INFORMATION

Disclaimer This document has been prepared by Baileys Fertilisers and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue.

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Revision 2

Date 06/06/2019

End of SDS