

Safety Data Sheet

1. Material Definition & Supplier Details

Product Name	Microfert Carbon Granules
Synonyms	Organic Granule – Soil Conditioner Compost and High Carbon Content Granule
Uses	A soil conditioner and amelioration product used for agricultural and general horticultural purposes. Also, may be used in domestic applications for soil conditioning and amelioration.
Supplier Name	Switch Ag Pty Limited
Address	71 Glenlogan Rd Cowra NSW 2794
Country of Origin	Australia
OECD Country	Yes
Telephone	0411 156 839
Email	admin@switchag.au
Website	www.switchag.au

Emergency telephone numbers (Australia) – 000

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2. Hazards Identification

2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

ALL INPUTS ARE CLASSIFIED AS ORGANIC

COMPOST INPUT IS MANUFACTURED TO AUSTRALIAN STANDARD AS4454-2021.

KEEP OUT OF REACH OF CHILDREN. SEEK MEDICAL ADVICE IF NEEDED.

This SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. Handling and/or processing of this material may generate dust which can cause mechanical irritation of the eyes, skin, nose, and throat.

2.2 Label elements

No signal word, pictograms, hazard, or precautionary statements have been allocated.

2.3 Other hazards

No information to list.

3. Composition Information on composition of Granules

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content (approx.)
Organic Compost	-	-	Not available
Lime (Calcium Carbonate)	1317-65-3	-	Not available
Bentonite	1318-93-0	-	Not available
Lignite	129521-66-0	-	Not available

4. First Aid Measures

4.1 Description of first aid measures

Eye	Flush eyes thoroughly for ten minutes with plenty of water. Check for and remove any contact lenses. If irritation exists seek medical attention.
Inhalation	Remove to fresh air. Seek medical attention if symptoms persist.
Skin	Wash thoroughly with mild soap and water. Change clothes immediately.
Ingestion	Give water to drink. Seek medical attention if any abdominal symptoms.
First aid facilities	Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire Fighting Measures

5.1 Extinguishing media

Water spray or fog, for large quantities. Use an extinguishing agent suitable for the surrounding fire. Prevent contamination of drains and waterways.

5.2 Special hazards arising from the substance or mixture

No specific fire or explosion hazard.

5.3 Advice for firefighters

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

5.4 Hazchem code

None allocated.

6. Accidental Release Measures

6.1 Personal Precautions, protective equipment and emergency procedure

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

6.2 Environmental precautions

Prevent products from entering drains and waterways.

6.3 Methods of cleaning up

If spilt, collect and reuse where possible.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. Handling and Storage

7.1 Precautions for safe handling

The use of safe work practices is 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.

The product is to be handled with caution with respect to aspects of crush. The product is not to be driven over by any equipment.

At delivery there may be a dusting event as the product is emptied from the truck. This is not a degradation event of the granules; it is a buildup of small residual dust particles that have entered the stockpile in the manufacturing plant.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with all local laws and regulations. Store in a cool, dry, well-ventilated area, removed from incompatible substances, such as acids.

The product may form steep piles that may collapse during transport, loading and unloading. Do not enter trucks, bins, or any other transportation method without performing a safety risk assessment. Ensure that bulk bags or smaller packaged products stored in tiers are stacked, racked, blocked, interlocked, or otherwise secured to prevent sliding, rolling, or collapse.

Must be stored in a dry location. Absorbs moisture on long-term storage under high humid conditions. Store away from incompatible materials (see Section 10).

When the product is stored in sealable containers, keep the container tightly closed and sealed until ready for use. Sealable containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

7.3 Specific end uses

No information provided.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Exposure standards

No exposure standards have been entered for this product.

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.

PPE

Eye/Face	Wear dust-proof goggles.
Hands	Individuals with sensitive skin should consider wearing PVC or rubber glove
Body	At high dust levels, wear coveralls.
Respiratory	At high dust levels, wear a Class P1 (Particulate) respirator.



9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Small granules are the same colour as soil
Odour	NO ODOUR
Flammability	NOT COMBUSTIBLE
Flash point	NOT AVAILABLE
Boiling point	NOT AVAILABLE
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
pH	7.5

Vapour density	NOT AVAILABLE
Bulk density	1.0 tonnes per cubic metre
Solubility (water)	RELATIVELY INSOLUABLE
Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT AVAILABLE
Lower explosion limit	NOT AVAILABLE
Partition coefficient	NOT AVAILABLE
Auto-ignition temperature	NOT APPLICABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE

10. Stability and Reactivity

10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

10.2 Chemical stability

This product is stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Polymerization will not occur.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Compatible with most used materials.

10.6 Hazardous decomposition products

May evolve carbon oxides and toxic gases when heated to decomposition.

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity	This product is expected to be of low toxicity. Ingestion in large quantities may result in gastrointestinal irritation, nausea, and vomiting. Ingestion in large quantities may result in dizziness, drowsiness, excessive urine, weakness, and confusion.
Skin	Not classified as a skin irritant. Prolonged or repeated exposure to dust may result in mechanical irritation and dermatitis.
Eye	Not classified as an eye irritant. However, dusts may be abrasive and irritating to the eyes.
Sensitisation	Not classified as causing skin or respiratory sensitisation.
Mutagenicity	Not classified as a mutagen.
Carcinogenicity	Not classified as a carcinogen.
Reproductive	Not classified as a reproductive toxin.
STOT - single exposure	Inhalation of dust may cause irritation of the respiratory system.
STOT - repeated exposure	Not classified as causing organ damage from repeated exposure. However, prolonged and repeated exposure to dusts may result in chronic pulmonary disease.
Aspiration	Not classified as causing aspiration.

12. Ecological Information

12.1 Toxicity

This product is not toxic if handled and stored as per section 7.

12.2 Persistence and degradability

The granules will break down if exposed to rain or water. The product may 'dust up' if overworked or handled inappropriately.

12.3 Bio accumulative potential

No information provided.

12.4 Mobility in soil

No information provided.

12.5 Other adverse effects

Avoid contamination of waterways.

13. Disposal Considerations

13.1 Waste treatment methods

Waste classification	This product is not listed as a waste product.
Waste disposal	Dispose of to an approved waste processing site licenced to receive this substance or a 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

	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.

14.1 Environmental hazards

No information provided.

14.2 Special precautions for user

Trucks to use a tarpaulin or similar to ensure that all loads are covered.

14.3 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).
Classifications	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)].
Hazard codes	None allocated.
Risk phrases	None allocated.
Safety phrases	None allocated.

Inventory listings

AUSTRALIA: AICS (Australian Inventory of Chemical Substances)
All components are listed on AICS or are exempt.

16. Other Information

Additional information	PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, 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: form of product; 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.

16.1 Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
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 Harmonized System
GTEPG	Group Text Emergency Procedure Guide
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration LD50 Lethal Dose, 50% / Median Lethal Dose
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
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average