

## COMPOST AND SOIL PRODUCTS

Infosafe No.: LQ623  
ISSUED Date : 13/06/2019  
ISSUED by: NUGROW

### 1. IDENTIFICATION

**GHS Product Identifier**

COMPOST AND SOIL PRODUCTS

**Company Name**

NUGROW

**Address**

Building 5, 22 Magnolia Drive Brookwater  
Qld 4300 Australia

**Telephone/Fax Number**

Tel: (07) 3294 1371

**Recommended use of the chemical and restrictions on use**

Composted organic materials and soil used to improve soil organic and mineral properties.

**Other Names**

Name	Product Code
COMMERCIAL SOIL	
PREMIUM SOIL	
TOP DRESSING	

### 2. HAZARD IDENTIFICATION

**GHS classification of the substance/mixture**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Skin Corrosion/Irritation: Category 2

Eye Damage/Irritation: Category 2A

Sensitization - Respiratory: Category 1

STOT Single Exposure: Category 3 (respiratory tract irritation)

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

**Pictogram (s)**

Exclamation mark, Health hazard



#### **Precautionary statement – Prevention**

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash contaminated skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P285 In case of inadequate ventilation wear respiratory protection.

#### **Precautionary statement – Response**

- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P362 Take off contaminated clothing and wash before reuse.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

#### **Precautionary statement – Storage**

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

#### **Precautionary statement – Disposal**

- P501 Dispose of contents/container to an approved waste disposal plant.

#### **Other Information**

Labelling according to AS 4454-2012 and AS 4419-2018.

- This product contains microorganisms.
- Keep product moist when handling to avoid dust.
- Avoid breathing dust or mist.
- Wear particulate mask if dusty.
- This product has low risk of containing sharp materials.
- Wear appropriate gloves and footwear as a precautionary measure.
- Wash hands immediately after use.
- Read detailed warning label on this bag.
- Refer to manufacturer's material safety data sheet.

#### **Hazardous**

Composts, potting mixes, and other organic gardening materials.  
This product is made from organic materials, including composted pine bark, and contains living micro-organisms, including bacteria, fungi and protozoa. May also contain mineral and fertilizer additives.

#### **Risk**

Inhalation of dust and/or liquid mists may irritate, inflame or sensitise the nose, throat and lungs, resulting in illnesses ranging from hayfever or asthma, to pneumonia (e.g. Legionnaire's disease) or pneumonia-like illnesses. Direct contact with this material or its dust and/or liquid mists (bioaerosols) may cause skin irritation (dermatitis), and skin or eye infection or irritation. People particularly at risk are those suffering from asthma or allergies, and those whose immune defence systems are compromised.

#### **Safety**

- Avoid contact with eyes or skin.
- Avoid breathing dust and/or liquid mists (bioaerosols).
- Wear suitable protective clothing and standard duty gloves.
- If exposed to dust and/or liquid mists, also wear dust resistant eye protection and particulate respirator.
- Wash thoroughly immediately after handling.
- Wash work clothes regularly.
- Clean up by wet sweeping or vacuuming.
- Store this product in a cool location.

#### First aid

Irrigate eyes with plenty of water for 10 minutes.

Wash skin with soap and water.

Seek medical attention for any persistent skin, eye or respiratory symptoms.

#### Disposal

Follow above safety precautions and collect in containers for disposal as trade waste in accordance with local authority guidelines.

For further information, refer to the safety data sheet for this product.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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#### Information on Composition

This product is made from organic materials, including composted pinebark and contains living microorganisms, including bacteria, fungi, protozoa, proteases (CAS No.: 9068-59-1) and may contain organofluorine compounds.

This product contains less than <0.1% respirable crystalline silica. Moisture content of 25-35%.

#### Ingredients

Name	CAS	Proportion
Crystalline Silica (Quartz)	14808-60-7	0-<10 %
Ingredients determined not to be hazardous, including water.		Balance

### 4. FIRST-AID MEASURES

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#### Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

#### Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

#### Skin

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

#### Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

#### First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

#### Advice to Doctor

Treat symptomatically.

#### Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

### 5. FIRE-FIGHTING MEASURES

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#### Suitable Extinguishing Media

Dry chemical, carbon dioxide, foam, water spray or fog.

#### Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including oxides of silica, carbon monoxide, carbon dioxide and oxides of nitrogen.

#### Specific Hazards Arising From The Chemical

This product will burn if exposed to fire.

#### Decomposition Temperature

Not available

### **Precautions in connection with Fire**

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

## **6. ACCIDENTAL RELEASE MEASURES**

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### **Emergency Procedures**

Control sources of ignition. Increase ventilation. Evacuate all unprotected personnel. Do not breathe dust. Wear respiratory protection and full protective clothing to minimise exposure. Sweep up material avoiding dust generation - dampen spilled material with water if suitable to avoid airborne dust, OR where possible use dustless methods such as vacuum to collect the material; then transfer material in to suitable vapour tight labelled containers for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## **7. HANDLING AND STORAGE**

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### **Precautions for Safe Handling**

Read detailed warning label on this product.

Avoid inhalation of dust/mist, and skin or eye contact. It is bioaerosols. Use only in a well ventilated area. Keep product moist when handling to avoid dust. Wear particulate mask if dusty. Keep containers sealed when not in use. Prevent the generation and build up of dust in the work atmosphere. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

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

Store this product in a cool location. Store in a well ventilated area away from heat and sources of ignition, out of direct sunlight and moisture. Take precautions against static electricity discharges. Use proper grounding procedures. Store away from incompatible materials such as materials that support combustion (oxidising materials). Store in suitable, labelled containers. Inspect periodically for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Ensure that storage conditions comply with applicable local and national regulations.

### **Other Information**

This product has low risk of containing sharp materials.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **Occupational exposure limit values**

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Quartz

TWA: 0.1 mg/m<sup>3</sup>

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

Source: Safe Work Australia.

### **Biological Limit Values**

No biological limits allocated.

### **Appropriate Engineering Controls**

This substance is hazardous and should be used with a local exhaust ventilation system, drawing solid/dust away from workers' breathing zone. A flameproof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

### **Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist/dust filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

### Eye Protection

Safety glasses with side shields or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

### Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

### Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Wash work clothes regularly.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Solid	Appearance	Blend of organic and mineral materials. Wet soil consistency.
Colour	Black to brown	Odour	Not available
Decomposition Temperature	Not available	Melting Point	Not available
Boiling Point	Not available	Solubility in Water	Insoluble
Specific Gravity	Not available	pH	6.5-8.5
Vapour Pressure	Not available	Vapour Density (Air=1)	Not available
Evaporation Rate	Not available	Odour Threshold	Not available
Viscosity	Not available	Partition Coefficient: n-octanol/water	Not available
Flash Point	Not available	Flammability	Not flammable
Auto-Ignition Temperature	Not available	Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available		

## 10. STABILITY AND REACTIVITY

### Chemical Stability

Stable under normal conditions of storage and handling.

### Reactivity and Stability

Reacts with incompatible materials.

### Conditions to Avoid

Heat, open flames and other sources of ignition. Dust generation and accumulation should be avoided.

### Incompatible materials

Strong oxidizing agents.

### Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes including: oxides of silica, carbon dioxide and carbon monoxide.

### Possibility of hazardous reactions

Not available

### Hazardous Polymerization

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

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### **Toxicology Information**

No toxicity data available for this material.

### **Ingestion**

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

### **Inhalation**

May cause respiratory irritation. Inhalation of product dust can cause irritation of the nose, throat and respiratory system. Chronic exposure to dust may aggravate existing respiratory disorders and lung disorders such as bronchitis, emphysema and asthma. Onset and progression are related to dust concentrations and duration of exposure.

### **Skin**

Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

### **Eye**

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

### **Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

### **Skin Sensitisation**

Not expected to be a skin sensitiser.

### **Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

### **Carcinogenicity**

Not considered to be a carcinogenic hazard.

This product contains crystalline silica. No exposure to free respirable crystalline silica is anticipated during normal use of this product as silica is bound in the wet matrix and contains less than <0.1 % respirable crystalline silica. It should be noted, however, that respirable crystalline silica has been listed as a Group 1 human carcinogen by the IARC. Repeated exposure to respirable crystalline silica dust may lead to silicosis, or other serious delayed lung injury. The onset of silicosis is usually slow and lung damage may occur even when no symptoms or signs of ill-health have occurred. Silicosis can develop to a more serious degree even after exposure has ceased, and may also lead to other diseases including heart disease and scleroderma. Exposure by inhalation may aggravate pre-existing upper respiratory and lung disorders such as bronchitis, emphysema and asthma. Dust generation should be avoided.

### **Reproductive Toxicity**

Not considered to be toxic to reproduction.

### **STOT-single exposure**

May cause respiratory irritation.

### **STOT-repeated exposure**

Not expected to cause toxicity to a specific target organ.

### **Aspiration Hazard**

Not expected to be an aspiration hazard.

### **Other Information**

Inhalation of dust and/or liquid mists may irritate, inflame or sensitise the nose, throat and lungs, resulting in illness ranging from hay fever or asthma, to pneumonia (e.g. Legionnaire's disease) or pneumonia-like illnesses. Direct contact with this material or its dust and/or liquid mists (bioaerosols) may cause skin irritation (dermatitis), and skin or eye infection or irritation. People particularly at risk are those suffering from asthma or allergies, and those whose immune defence systems are compromised.

## 12. ECOLOGICAL INFORMATION

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### **Ecotoxicity**

No ecological data available for this material.

### **Persistence and degradability**

Not available

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

Prevent this material entering waterways, drains and sewers.

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**13. DISPOSAL CONSIDERATIONS**

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**Disposal considerations**

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

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**14. TRANSPORT INFORMATION**

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**Transport Information**

Road and Rail Transport (ADG Code):

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

Marine Transport (IMO/IMDG):

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

Air Transport (ICAO/IATA):

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

**U.N. Number**

None Allocated

**UN proper shipping name**

None Allocated

**Transport hazard class(es)**

None Allocated

**IMDG Marine pollutant**

No

**Transport in Bulk**

Not available

**Special Precautions for User**

Not available

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**15. REGULATORY INFORMATION**

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**Regulatory information**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Poisons Schedule**

Not Scheduled

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**16. OTHER INFORMATION**

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**Date of preparation or last revision of SDS**

SDS Reviewed: June 2019

Supersedes: October 2016

## References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of Classification and Labelling of Chemicals.

## END OF SDS

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