



SAFETY DATA SHEET

Date of Issue: Dec 2019

1. IDENTIFICATION

Product Name: Humus 400
Recommended Use: Powdered Fertiliser – Agricultural Use

Contact Information:

Organisation	Location	Telephone
Eco Growth WA	75 Postans Rd Hope Valley Western Australia 6165 Australia	+61 8 9417 9101
Eco Growth Qld	540-604 Warrego Hwy North Tivoli Queensland 4305 Australia	+61 7 3282 7166
Poison Information Centre	Westmead NSW Australia	13 11 26
Chemcall 24 Hour Emergency Number	Australia	1800 127 406

2. HAZARDS IDENTIFICATION

Classified as hazardous: H228 – Flammable solid: H315 – Causes skin irritation: H319 – Causes serious eye irritation.

UN No.: 3088 Self Heating Solid, Organic. **DG Class:** Class 4.2 in amounts >3.0T

Subsidiary Risk(s): None Allocated **Packing Group:** None Allocated <3.0T

Hazchem Code: None Allocated **EPG:** None allocated

3. COMPOSITION & INFORMATION ON INGREDIENTS

Ingredient	Formula	Cas No.	Content
Sub-bitumous lignite	Complex	129521-66-0	>60%
Moisture	H2O	7732-18-5	<20%

4. FIRST AID MEASURES

- Eye:** If in eyes, hold eyelids apart and flush continuously with running water or normal saline for at 20-30 mins. Continue flushing until advised to stop by: Poisons Information Centre or a doctor.
- Inhalation:** If dust is inhaled, remove exposed individual to fresh air and breathe deeply. If symptoms (such as wheezing, coughing, shortness of breath, burning in the mouth or throat) persist, contact a doctor. If not breathing, apply artificial respiration – use protection.
- Skin:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water for at least 20-30 mins. Continue flushing with water until advised to stop by: a Poisons Information Centre, or; a doctor.
- Ingestion:** DO NOT INDUCE VOMITING. Give patient 1-2 glasses (250-500ml) of water to drink. Contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor, at once.
- Advice to Doctor:** Treat Symptomatically.
- First Aid Facilities:** Eye wash facilities and safety shower should be available.

5. FIRE FIGHTING MEASURES

- Flammability:** Margginally combustible. Contact with strong oxidising agents (ozone, chlorine, liquid oxygen) may result in fire. May evolve toxic gases (carbon/ nitrogen/ sulphur oxides, hydrocarbons) when heated to decomposition. Dust may form explosive mixtures with air. Non Flammable.
- Extinguishing Equip:** Use dry chemical, sand, earth, water spray or regular foam; fire extinguisher (Class A or Class B).
- Hazchem Code:** Non Allocated.

6. ACCIDENTAL RELEASE MEASURES

- Spillage:** If spilled, scoop up and recover as much product as possible. Collect and store in properly labelled containers for disposal or reuse. Use eye and skin PPE when cleaning/controlling spills.
- Environment:** Keep product away from drains and surface/ground water and/or flow channels.

7. HANDLING & STORAGE

- Handling:** Use caution to avoid spills when loading, moving or depositing product. Broadcast according to label instructions or under the guidance of an Eco Growth representative or qualified agronomist.
DO NOT MIX with other oxidising granular products or liquid agrichemicals.
Handle in well-ventilated area.
Wash equipment after use.
- Storage:** General Work Practices Fertiliser Product - Not to be stored close to oxidising materials.
Protect from water and moisture penetration – shield product from rainfall, dew and ground water.
Not classified as dangerous.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

- Exposure Limits:** No Value assigned for this specific material by the National Occupational Health and safety Commission (Worksafe Australia).
- Individual PPE:**
- Eye & Face Protection** - Safety glasses with side shields or goggles.
 - Skin Protection and Clothing** - Avoid prolonged contact with skin. Clothing should include long sleeves and pants, heavy grade material, safety boots and gloves. Glove types include heavy leather/fabric, rubber or nitrile. After use, always wash hands before smoking, eating, drinking or using the toilet.
 - Respiratory Protection** – When using or applying, recommended minimum is a dust mask; prefer Class P1 cartridge (particulate) face mask.
- Thermal Hazard:** None.

9. PHYSICAL & CHEMICAL PROPERTIES

- Appearance:** Brown, granular coarse powder
- Odour:** None.
- Melting Point:** >315°C
- Evaporation Rate:** Not applicable.
- Boiling Point:** Not applicable.
- kg/m³:** 750
- pH:** 6.0
- Solubility in Water:** Insoluble in water
- Flammability:** Non-Flammable in 25kg bags or 1.0 ton bulka bags.

10. STABILITY & REACTIVITY

- Chemical Stability:** Stable under recommended conditions of storage (normally, dry, 0°-50°C, 1 Atm pressure).
- Conditions To Avoid:** Moisture and high humidity (>65% RH).
- Hazardous Reactions:** Oxidising agents.
- Decomposition:** Very slow under dry conditions. Presence of moisture reduces longevity.

11. TOXICOLOGICAL INFORMATION

- Acute Toxicity:** This product is not known to be acutely toxic.
- Skin:** Classified as mild skin irritant. Prolonged or repeated exposure to dust may result in irritation and dermatitis.
- Eye:** Classified as mild eye irritant. Contact results in mild irritation, lacrimation and redness.
- Respiration:** Classified as a respiratory irritant. Prolonged single or repeated exposure to dust may result in mild irritation and coughing.
- Sensitization:** This product is not known to be a skin or respiratory sensitiser.
- Carcinogenicity:** This product is not known to be a carcinogen.

STOT – single exposure: Respiratory irritant on prolonged single exposure.
STOT – repeated: Not classified as causing organ effects from repeated exposure.
Ingestion: Low toxicity. Ingestion of large quantities may result in nausea.
Toxicity Data: No LD50 data available for this product.

12. ECOLOGICAL INFORMATION

Ecotoxicity: In its concentrated form, this product may have low-level hazard on soil, animals and plants. Once spread (at a rate <2 t/ha) on agricultural land, this product is non-hazardous. Ensure appropriate measures are taken to prevent this product from entering the environment in concentrated form.

Persistence and Degradability: This product is not persistent and degrades moderately rapidly when exposed to environmental conditions, especially water+soil contact.

Bioaccumulative Potential: Very low to non-bioaccumulative.

Mobility in Soil: Low soil mobility under normal environmental conditions.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of to an approved landfill site in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

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Hazchem Code: None Allocated **EPG:** None allocated

15. REGULATORY INFORMATION

The product is classified and labelled for supply in accordance with the chemicals (hazard information and packaging) regulations as follows:

Danger Classifications: In accordance with the chemicals Not Applicable.

Risk Phrases: None.

Safety Phrases: Keep out of reach of children. Keep container closed.

16. OTHER INFORMATION

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as 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.