

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier:**

**Product name:** BIOPLUS T  
**Trade name:** AF BIOPLUS T

**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

**Product use:** As a foliar/soil spray/drench. Not for oral consumption. Not for direct contact with Food or Beverages.

**1.3 Details of the supplier of the safety data sheet:**

AIVA LTD (Aiva Fertiliser)  
 The Old Farm Offices, Manor Farm, Ginge, Oxfordshire UNITED KINGDOM OX12 8QS  
 Tel: +44 (0) 1235 834 997 (option 2)  
 Email: [office@aivafertiliser.co.uk](mailto:office@aivafertiliser.co.uk)  
[www.aivafertiliser.co.uk](http://www.aivafertiliser.co.uk)

**1.4 Emergency telephone number:**

01235 934997  
 9.00am to 17.00pm

Call 999

National Poisons Information Service:

For medical advice or information you should contact your GP or NHS 111 (or NHS 24 in Scotland) on 111 (for 24 hour health advice)

If you are a healthcare professional with an enquiry please visit [www.TOXBASE.org](http://www.TOXBASE.org)

**SECTION 2: HAZARD IDENTIFICATION**

**2.1. Classification of the substance or mixture**

According to Regulation (EC) No 1272/2008: Not classified

**2.1.2. Classification – EC 1272/2008**

Resp. Sens. 1; H334

**2.2. Label elements**

**Hazard pictograms**



**Signal word:**

DANGER

**Hazard statement:**

Resp. Sens. 1; H334 - may cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Precautionary Statement:**

**Prevention**

**Precautionary statement(s) (prevention):**

P261: Avoid breathing dust  
 P285: In case of inadequate ventilation, wear respiratory protection

**Precautionary statement(s) (response):**

P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P342+P311: If experiencing respiratory symptoms call a doctor/physician.

**Precautionary statement(s) (disposal):**

P501: Dispose of contents/container in accordance with local regulations

**2.3 Other hazards**

**Other Hazards:**

The mixture does not fulfil the criteria for PBT or vPvB substance. The bacteria in this mixture belong to hazard group 1 as defined by the Advisory Committee on Dangerous Pathogens (ACDP) as: "A biological agent unlikely to cause human disease." It should NOT be assumed however, that the organism will be innocuous in all situations or that infections can never occur. The mixture should therefore not be used by, or in the presence of immunocompromised persons.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	Percentage by weight
Bacillus spp.	0.16-6.3
Pseudomonas sp.	0.16-6.3
Paenibacillus sp.	0.16-6.3
Azotobacter sp.	0.16-6.3
Azospirillum sp.	0.16-6.3
Beijerinckia sp.	0.16-6.3
Trichoderma sp.	0.80-1.0
Perlite	3.00-4.00
Dextrose powder	57.00-95.00

**Further information**

**Product shelf life:**

Recommended shelf life 8 months from date of delivery.

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures**

**Following aspiration/inhalation:** Move affected person to fresh air; keep person quiet and warm; in case of respiratory failure, administer artificial respiration and seek medical attention.

**Following skin contact:** Wash affected areas with plenty of water.

**Following eye contact:** Remove contact lenses, if present and easy to do. Rinse eyes with water for at least 15 minutes while holding eyelids apart.

**After ingestion:** Rinse mouth with water, drink plenty of water. Do not induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed:** Sensitive individuals may experience breathing difficulties

**4.3 Indication of any immediate medical attention and special treatment needed:** Follow advice in 4.1

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media:**

**Suitable extinguishing media:**

Any extinguishing media may be used but should be appropriate to the cause of the fire and surrounding area.

**Unsuitable extinguishing media:** Not applicable.

**5.2 Special hazards arising from the mixture:**

Low degree of risk due to thermal decomposition. May release oxides of carbon if burnt (CO; CO<sub>2</sub>).

**5.3 Advice for fire fighters:**

Fire-fighters should be equipped with breathing apparatus appropriate to environmental conditions and wear protective clothing.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures.**

**6.1.1 Non-emergency personnel:** Avoid contact with eyes and skin and dust formation, do not breathe dust. Wear suitable protective clothing (overalls), gloves, mask & goggles.

**6.1.2 Emergency personnel:** see 6.1.1

**6.2 Environmental Precautions:** Dextrose can raise water oxygen demand in large quantities.

**6.3 Methods and material for containment and cleaning up:**

**6.3.1 Containment:** no special precautions

**6.3.2 Clean-up:** Avoid creating dust; preferably vacuum clean and collect in suitable labelled containers for waste. Rinse contaminated area with water afterwards with plenty of water.

**6.3.3 Other information relating to spills and releases:** Not applicable

**6.4 Reference to other sections:** Personal protective means are given in section 8. Disposal advice is given in section 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

Read label before use. Avoid creating dust. Wash hands after working with product. Do not smoke, eat or drink when handling product. Employees should wear protective work clothing, shoes and gloves. Wear additional mask and goggles if creating dust. Follow manufacturer's recommendations.

**7.2 Conditions for safe storage, including any incompatibilities:**

Keep in original container. Store in a cool, dry, well-ventilated place. Prolonged storage should be in chilled or frozen storage. Protect from light, raised temperatures and humidity.

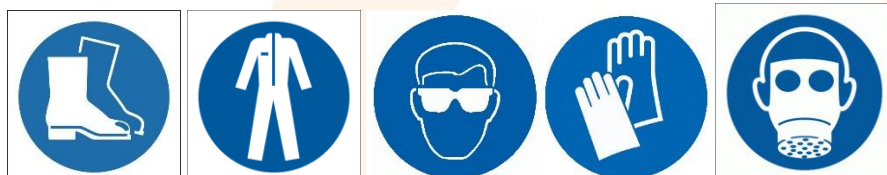
**7.3 Specific End Use:**

Refer to product information sheet for full use and application details.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

Contains no substances with occupational exposure limit values.



**8.2. Exposure controls**

**8.2.1 Appropriate Engineering Controls:** Work in a well - ventilated area. Avoid eating, drinking and smoking. Wash hands after use.

**8.2.2 Individual Protection Measures, such as personal protective equipment:**

- a) **Eye/face protection:** Safety glasses .
- b) **Skin protection / Hand protection:** Rubber gloves  
**Other:** Protective clothing (overalls) shoes and goggles.
- c) **Respiratory protection:** Dust mask
- d) **Thermal hazards:** Carbon monoxide at low oxygen levels.

**8.2.3 Environmental exposure controls:** Not applicable

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

- a) Appearance: Off-white powder
- b) Odour: Slight fungal
- c) Odour threshold: not applicable

d)	pH:	6.8-7.2
e)	Melting point/freezing point:	not applicable
f)	Boiling point:	not applicable
g)	Flash point:	not applicable
h)	Evaporation rate:	not applicable
i)	Flammability:	not applicable
j)	Explosive limits:	not applicable
k)	Vapour pressure:	not applicable
l)	Vapour density:	not applicable
m)	Relative density:	0.75- 0.85 gm/cm <sup>3</sup>
n)	solubility in water:	100 gm/litre
o)	partition coefficient:	not applicable
p)	auto-ignition temperature:	not applicable
q)	decomposition temperature:	not applicable
r)	viscosity:	not applicable
s)	explosive properties:	not applicable
t)	oxidising properties:	not applicable

**9.2 Other Information:** None

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

**Beware of following conditions:** Extremes of Temperature.

**Beware of following materials:** Biocides.

**10.2 Chemical stability:** Not available.

**10.3 Possibility of hazardous reactions:** Not available.

**10.4 Conditions to avoid:** Do not expose the mixture to humidity and extremes of temperatures.

**10.5 Incompatible Materials:** Any material with biocidal properties

**10.6. Hazardous decomposition products:** May release oxides of carbon during fire (CO; CO<sub>2</sub>)

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Mixture:**

a)	Acute toxicity:	non - toxic
b)	Irritation:	not an irritant
c)	Corrosivity:	non corrosive
d)	Sensitisation:	may cause sensitisation in certain susceptible individuals. Classed as a respiratory sensitiser.
e)	Repeated dose toxicity:	non - toxic
f)	Carcinogenicity:	non carcinogenic
g)	Mutagenicity:	non mutagenic
h)	Toxicity for reproduction:	non – toxic

**Information on likely routes of exposure:**

Inhalation: May cause sensitisation in some individuals.

Skin: Not absorbed through skin.

Eyes: Dust may cause irritation (mechanical).

Ingestion: Unlikely to be harmful if swallowed.

**Symptoms related to related to the physical, chemical and toxicological characteristics:**

If inhaled, may cause sensitisation (shortness of breath).

**Delayed and immediate effects and chronic effects from short and long term exposure:**

If inhaled, may cause sensitisation (shortness of breath)

**Interactive Effects:** Not available.

**Absence of data:** If information is not listed in section 11 it is due to non availability of data or not appropriate.

**Other Information:** Not applicable.

**SECTION 12: ECOLOGICAL INFORMATION**

<b>12.1 Toxicity:</b>	Not determined.
<b>12.2.Persistence and degradability:</b>	Dextrose is fully biodegradable. The bacteria and fungi are naturally present in the environment.
<b>12.3.Bioaccumulative potential:</b>	Not expected to accumulate.
<b>12.4 Mobility in soil:</b>	Not determined.
<b>12.5 Result of PBT and vPvB assessment:</b>	Dextrose, bacteria and fungi are not classified as PBT or vPvB substances.
<b>12.6 Other adverse effects:</b>	Not determined.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods.**  
**Product:** Use licensed waste disposal company.  
**Contaminated packaging:** Dispose of as unused product.

**SECTION 14: TRANSPORT INFORMATION**

**14.1 UN Number:**  
**ADR/RID: -            IMDG: -            IATA: -**

**14.2 UN proper shipping name:**  
**ADR/RID:** Not dangerous goods  
**IMDG:** Not dangerous goods  
**IATA:** Not dangerous goods

**14.3 Transport hazard class(es):**  
**ADR/RID: -            IMDG: -            IATA: -**

**14.4 Packaging Group:**  
**ADR/RID: -            IMDG: -            IATA: -**

**14.5 Environmental hazards:**  
**ADR/RID:** No            **IMDG:** Marine pollutant: No            **IATA:** No

**14.6 Special precautions for user:** No

**14.7 Transport in bulk according to Annex II MARPOL 73/78 and the IBC code:** Not regulated

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation, specific for the mixture:** None

**15.2 Chemical Safety Assessment:** No data available

**SECTION 16: OTHER INFORMATION**

This safety data sheet has been prepared in accordance with Regulations (EC) of the European Parliament Council No 1272/2008 and Commission Regulation (EU) No 453/2010.

The above information is based on present knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification of quality of the product. The users must satisfy themselves that the product is entirely suitable for the purpose.

