

# SAFETY DATA SHEET

## BACSTAR<sup>TM</sup>

Date of Issue: February 2019

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

**Chemical name of active ingredient(s):** *Bacillus Subtilis* (WG from technical powder)  
**Recommended use:** Bio fungicide  
**Supplier:** Etec Crop Solutions Ltd  
PO Box 51584  
Pakuranga 240  
Auckland  
**Emergency telephone number:** 0800 Poison (0800 764 766) 24 Hours

### 2. HAZARDS IDENTIFICATION

**Hazard Classification:** 6.5B, 9.1D  
**Required identification Details:** Harmful. May cause sensitisation from skin contact.  
Harmful to terrestrial vertebrates.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
<i>Bacillis Subtilis</i>	NA	

### 4. FIRST-AID MEASURES

#### Description of necessary first aid measures:

#### Effects and symptoms

#### First-aid measures

**Inhalation:** Remove individual to fresh air

**Ingestion:** If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre 0800 Poison (0800 764 766) or a doctor immediately.

**Skin contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. DO NOT SCRUB THE SKIN.

**Eye contact:** If concentrate is splashed in the eyes, flush with running water for at least 15 minutes. Take to hospital without delay.

**Notes to a physician:**

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## 5. FIRE-FIGHTING MEASURES

**HAZCHEM Code:**

**Extinguishing media :** All methods

**Hazardous thermal (de)composition products:** None

**Protection of fire-fighters:** Dust Mask, Gloves, Goggles

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use of dust mask is recommended. Use gloves. Avoid contact with broken skin. Use goggles. Avoid contact with eyes. Wash thoroughly after exposure. Remove contaminated clothing and wash before use.

**Environmental precautions:** Use under ventilated conditions.

**Methods for cleaning up:** Recover free product. Use absorbent material to minimise runoff of mixed product. Do not attempt to clean or reuse containers. Dispose of empty container on a sanitary landfill, or burn if permitted and circumstances, especially wind direction allow, in accordance with Local Authority. Unused material should be disposed of in an approved waste facility.

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## 7. HANDLING AND STORAGE

**Handling:** Use of dust mask is recommended. Use gloves. Avoid contact with broken skin. Use goggles. Avoid contact with eyes.

**Storage:** Tightly re-close containers of unused material. Store in a cool, dry place.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace Exposure Guidelines

**Workplace exposure standards:** Use under ventilated conditions

**Application in the workplace:**

**Exposure Standards outside:  
The workplace:**

### Engineering measures

**Hierarchy of controls:**

**Exposure control measures:**

**No Hazard indication:**

**Ventilation specification:**

### **Personal Protective Equipment**

**Detail specifications for equipment:**

**Respiratory system:**

Use of dust mask is recommended.

**Skin and body:**

**Hands:**

Use gloves.

**Eyes:**

Use goggles.

**General hygiene:**

Wash thoroughly after exposure. Remove contaminated clothing and wash before use.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:**

Water dispersible granule

**Colour:**

Tan powder

**Odour:**

Yeast-like

**pH:**

**Vapour Pressure:**

NA

**Vapour Density:**

NA

**Boiling Point:**

NA

**Freezing/melting point:**

**Solubility:**

negligible

**Specific gravity or density:**

NA

**Information for flammable material including:**

NA

- Lower and upper flammability limits
- Flashpoint (state test Method

NA

**Auto – ignition Temperature:**

**Octanol/water partition coefficient:**

**Explosion properties:**

**Oxidation properties:**

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## **10. STABILITY AND REACTIVITY**

**Stability:**

Stable

**Conditions to avoid:**

Unknown

**Materials to avoid:**

*(list the classes of materials or chemicals which may be incompatible with the product)*

*product)*

**Hazardous decomposition Products:** *(list the known decomposition products)*  
**Hazardous polymerization:** *(state any substance likely to polymerize and cause dangerous conditions)*  
**Specific Data:** *(state any other information which might describe a likely hazard from the product including mixtures)*

**Hazardous reactions :** Chloride compounds and nitrogen oxides.

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## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity – Oral :**  
**Acute toxicity - Dermal :**  
**Acute toxicity – Inhalation:**  
**Skin irritation :**  
**Eye irritation:**  
**Sensitization :**  
**Common name :**  
**Chronic toxicity :**  
**Carcinogenicity:**  
**Mutagenicity:**  
**Reproduction toxicity:**

**Other information :**

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**  
**Fish**  
**Daphnia magna**  
**Algae**  
**Bees**  
**Common name**  
**Mobility      Soil**  
**Water**  
**Persistence/degradability Soil**  
**Water**  
**Bioaccumulative potential :**  
**Ecotoxicity**  
**Fish**  
**Daphnia magna**  
**Algae** (scenedesmus subspicatus)  
**Birds**  
**Bees**

## 13. DISPOSAL CONSIDERATIONS

**Methods of disposal :** Recover free product. Use absorbent material to minimize runoff of mixed product.

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## 14. TRANSPORT INFORMATION

International transport regulations

**International transport regulations:**

**UN number: Not a Dangerous Good**

**Land - Road/Railway**

**Proper shipping name : NA**

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## 15. REGULATORY INFORMATION

**ACVM Registered Number:** P008310

**HSNO Approval Code:** HSR100430

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## 16. OTHER INFORMATION

**Additional information:**

**Original Issue Date:** June 2012

**Revision Date:** 22<sup>nd</sup> February 2019

**Replaces:** SDS ES455

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