

SAFETY DATA SHEET

BACSTARTM

Date of Issue: August 2017

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>Bacillus 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:

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:

Extinguishing media : All methods

Hazardous thermal (de)composition products: None

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

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.

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.

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.

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:

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.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral :

Acute toxicity - Dermal :

Acute toxicity – Inhalation:

Skin irritation :

Original Issue Date: 1 November 2012

Revision Date: 17th July 2017

Replaces: SDS ES317

Eye irritation:

Sensitization :

Common name :

Chronic toxicity :

Carcinogenicity:

Mutagenicity:

Reproduction toxicity:

Other information :

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.

14. TRANSPORT INFORMATION

International transport regulations

International transport regulations:

UN number:

Land - Road/Railway

Proper shipping name :

15. REGULATORY INFORMATION

ACVM Registered Number: P8310
HSR100340

HSNO Approval Code:

16. OTHER INFORMATION

Additional information: **Original Issue Date:** June 2012
Revision Date: 17th August 2017
Replaces: SDS ES242

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