

SAFETY DATA SHEET

SILO[®] ECO

Date of Issue: 4 December 2017

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): 90% Amorphous Silicon Dioxide
Common name: Diatomaceous Earth/Diatomite
Recommended use: Insecticide
Supplier: Etec Crop Solutions Ltd
PO BOX 51584
Pakuranga, Auckland
Phone 0800 100 325
Emergency telephone number: 0800 CHEMCALL (0800 243 622) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: Not a hazardous substance

Required identification Details: When used correctly there is no toxicity hazard involved in Silo-ECO. The silica has an amorphous structure and does not show any carcinogenicity. Practically non harmful if swallowed. Prolonged exposure to the dust may cause mild eye and skin irritation in some susceptible people.
Note: Prolonged and continuous exposure to excessive concentration of dust of any kind may have an adverse pulmonary effect on some people.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on ingredients

Common name	CAS No	%
Diatomaceous Earth/Diatomite (containing approx 90% amorphous silicon dioxide)	61790-53-2	90%

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms

First-aid measures

Inhalation: If inhaled, move to fresh air.

Ingestion:	No hazard – Silo-ECO is used as a food additive
Skin contact:	Wash skin with water. Due to the drying characteristics of the dust, it might be necessary to fatten the skin afterwards.
Eye contact:	Irrigate with water or eye wash product
Notes to a physician:	

5. FIRE-FIGHTING MEASURES

Fire/Explosion Hazard:

HAZCHEM Code:	
ERP Guide No:	
Extinguishing media :	NA
Hazardous thermal (de)composition products:	
Protection of fire-fighters:	NA

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	No special precautions required
Environmental precautions:	Silo-ECO is a natural product. No negative effects on the environment are known.
Methods for cleaning up:	Vacuum or sweep into a container for reclamation or disposal. Wash residues away to drain with water. Large quantities of spilled product can be used in land fill or disposed of in industrial waste dumps. ,!

7. HANDLING AND STORAGE

Handling/Storage:	Store in original sealed, or re-sealed bags in a dry place. Prevent electrostatic charge
Packaging materials:	
Approved Handler:	Not required
Tracking:	Not required
Recording Keeping:	

Site requirements under HSNO Regulations:

Additional Requirements:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards:

Ventilation – local exhaust

Exposure Standards outside:

The workplace:

Engineering measures

Exposure control measures:

Personal Protective Equipment

Detail specifications for equipment:

Respiratory system:

Use dust mask DIN EN FFP2 or DIN 58 646-HM with particle filter P2 DIN EN 143 (white) when handling Silo-ECO.

Skin and body:

Protective gloves.

Hands:

Protective gloves.

Eyes:

General hygiene:

Minimise dust generation and exposure.

Threshold values:

<u>Name:</u>	<u>Name of limit:</u>	<u>Limit:</u>
Amorphous Silicium dioxide	MAK (total dust)	4 mg/m ³
	OES (UK) (total dust)	6 mg/m ³
	TLV (USA) (total dust)	10 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Powder

Colour:

White

Odour:

pH:

5-7

Vapour Pressure:

Non volatile

Boiling Point:

Melting point:

1600°C

Solubility:

Not soluble

Density:

App. 200kg/m³

Bulk density:

App. 300kg/m³

Information for flammable material including:

Non flammable

Octanol/water partition coefficient:

Explosion properties:

No explosion hazard

Oxidation properties:

10. STABILITY AND REACTIVITY

Stability:

Conditions to avoid:

Materials to avoid:

Hazardous decomposition Products:

Decomposition starts at >2200°C.

Hazardous polymerization:
Specific Data:
Hazardous reactions :

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral (Active ingredient) : LD₅₀	>2500 mg/kg (rat)
Acute toxicity - Dermal :	no acute reaction (rabbit)
Acute toxicity – Inhalation:	No acute reaction
Inhalation:	
Ingestion:	
Skin irritation :	No acute dermal irritation.
Eye irritation:	Minimal eye irritation (rabbits)
Sensitization :	None
Subacute to chronic toxicity:	Long-term studies showed no negative effects after ingestion. Tests for chronic toxicology after inhalation did not show any irreversible changes or symptoms for Silicosis.
Reproductive Effects:	Long term studies showed no negative effects.
Mutagenicity:	In vitro and in vivo studies showed no mutagenic effects.
Carcinogenicity:	Long term studies showed no negative effects.
Other information :	

12. ECOLOGICAL INFORMATION

Ecotoxicity	
Fish:	NOEC (96 h) >= 10000 mg/L Brachydanio rerio, OECD 203
Daphnia:	NOEC (24 h) >= 1000 mg/L Daphna magna, OECD 202
Bees	
Soil	
Bioaccumulative potential :	

13. DISPOSAL CONSIDERATIONS

Product:	Dispose with normal waste.
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Methods of disposal :

14. TRANSPORT INFORMATION -International transport regulations

Not a dangerous good for all kinds of transports (sea – land – air)

UN number:
Class or Division:
Classification Code:
Packing Group:

Marine Pollutant:
Proper shipping name :

MTQ (non-Commercial)
INTERNATIONAL AIR TRANSPORT
ASSOCIATION (IATA):

15. REGULATORY INFORMATION

ACVM Registered Number:	Exempt from registration under the ACVM Act
HSNO Approval Code:	Not a Hazardous Substance under the HSNO Act
Symbols:	not a dangerous good
Product contains:	amorphous silicium dioxide
Labelling:	Avoid any unnecessary contact with the product. Misuse can cause health problems.

16. OTHER INFORMATION

Additional information:	The above information is based on our present knowledge. However, it does not guarantee any properties. The user is solely responsible that existing laws and regulations are observed.
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Original Issue Date: 20 December 2012

Revision Date: 4 December 2017.

Replaces: ES319

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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