



SAFETY DATA SHEET

TALSTAR 80SC ^{®1}

Date of Issue: 08 December 2010

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): bifenthrin

Recommended use: Insecticide

Supplier: Etec Crop Solutions Ltd
PO Box 51584
Pakuranga, Auckland
Phone 0800 100 325

Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: Toxic - 6.1D, 6.9B,
Ecotoxic - 9.1A, 9.2C, 9.3B, 9.4A
Approved Handler Applies

Required identification Details: ECOTOXIC

May be harmful if swallowed, inhaled or absorbed through the skin.

Presumed to cause damage to the nervous system from repeated oral exposure at high doses.

Very toxic to aquatic organisms.
Toxic to the soil environment.
Toxic to terrestrial vertebrates.
Very toxic to terrestrial invertebrates.
Toxic to bees.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Bifenthrin	82657-04-3	8 (80 g/L)
Inert ingredients		>60

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms

7. HANDLING AND STORAGE

Handling:	When mixing or applying, avoid contact with skin and eyes. Wear protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.
Storage:	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. This product is classified under HSNO as 6.1D and 9.1A, and storage of certain quantities may require bunding and signage. See the HAZNOTE for further information.
Packaging materials:	Fluorinated HDPE Plastic

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards:	Not Established
Exposure Standards outside: The workplace:	Not established
<u>Engineering measures</u> Exposure control measures:	Use in a well ventilated areas. Keep containers closed when not in use.

Personal Protective Equipment

Detail specifications for equipment: Respiratory system:	Avoid inhalation. Work up wind.
Skin and body:	Wear long sleeved shirt, long pants worn outside of boots.
Hands:	Waterproof gloves
Eyes:	Goggles or face shield
General hygiene:	Wash hands and face before meals and after work. Wash protective clothing after work. Do not smoke during work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Beige to white
Odour:	Mild
pH:	Not Available
Vapour Pressure:	Not available
Melting Point:	Not available
Solubility:	Not available
Specific gravity or density:	1.024

Mutagenicity:	Bifenthrin was not genotoxic in a battery of mutagenicity assays.
Reproduction toxicity:	Animals studies have shown that bifenthrin is not teratogenic nor does it cause reproductive toxic effects. ADI (Acceptable Daily Intake) for humans is 0.01 mg/kg bw/day.
Other information :	

12. ECOLOGICAL INFORMATION

E.E.L.	Water: 0.05 ng/litre (bifenthrin)
T.E.L.	Not Established
Ecotoxicity	Toxic to aquatic organisms.. Log Octanol/ Water Partition
Fish	Coefficient: >6
Daphnia magna	48 hr LC50 (Daphnia magna): 0.00016 mg/L 96 hr LC50 (Rainbow trout): 0.00015 mg/L 96 hr LC50 (Blungell sunfish): 0.00035 mg/L
Bees	Harmful to bees Oral LD50 (µg/bee): 0.1 µg/bee Contact LD50 (µg/bee): 0.0146 µg/bee.
Soil Persistence/degradability Soil	Bifenthrin is moderately stable in soil under aerobic conditions, with a half life ranging from 65 – 125 days (depending upon soil type). It has a high affinity for organic matter and is not mobile. There is a potential for bioconcentration up the food chain.
Water	Avoid contaminating waterways
Bioaccumulative potential :	Risk of bioaccumulation in an aquatic species is high
Avian	Harmful to terrestrial species. Oral LD50 (mallard duck): 2,150 mg/kg Oral LD50 (bobwhite quail): 1,800 mg/kg

13. DISPOSAL CONSIDERATIONS

Methods of disposal :	Triple or preferably pressure rinse containers before disposal. Add rinsing to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.
------------------------------	--

14. TRANSPORT INFORMATION - International transport regulations

UN number:	UN 3082
-------------------	----------------