

## MATERIAL SAFETY DATA SHEET

### STATEMENT OF HAZARDOUS NATURE:

Not determined to be hazardous according to the criteria of NOHSC

### COMPANY DETAILS:

Syngenta Crop Protection Pty Limited  
ABN 33 002 933 717  
Level 1, 2-4 Lyon Park Road  
NORTH RYDE, NSW 2113

Telephone No.: (02) 8876 8444  
24 Hours Emergency No.: 1 800 033 111

## IDENTIFICATION

### PRODUCT NAME: TECTO® Flowable SC Fungicide

|                    |                        |  |                |
|--------------------|------------------------|--|----------------|
| Formulation type:  | suspension concentrate | Dangerous Goods Class/<br>and Subsidiary Risk (ADG): | none allocated |
| Active Ingredient: | thiabendazole          | Hazchem Code:  | none allocated |
| Product Code No.:  | A-10466 C              | Packing Group:                                       | none allocated |
| Chemical type:     | benzimidazole          | Poisons Schedule:                                    | exempt         |
| UN Number (ADG):   | none allocated         |  |                |

**USE:** Fungicide for the control of dry rot, gangrene and silver scurf of potato tubers and specific rots and moulds of fruit and fungal diseases of bulbs, corms, turf and mushrooms.

### PHYSICAL DESCRIPTION/PROPERTIES

|                   |                              |                    |               |
|-------------------|------------------------------|--------------------|---------------|
| Appearance:       | White to light yellow liquid | Flash point:       | > 80°C        |
| Odour:            | Light aromatic               | Flammability:      | Non-flammable |
| Specific gravity: | 1.14 - 1.17                  | Behaviour in water | Suspensible   |

### OTHER PROPERTIES

|                     |                               |                      |               |
|---------------------|-------------------------------|----------------------|---------------|
| Volatility:         | Not known                     | Corrosiveness:       | Non-corrosive |
| pH value (20-25°C): | 7.0 (1% suspension in water): | Viscosity (20-25°C): | 900 mPa.s     |

### INGREDIENTS -

|  | CAS No.    | Content (% w/w) |
|--|------------|-----------------|
| thiabendazole (technical grade)                  |            | >50             |
| to give thiabendazole                            | [148-79-8] | 50              |
| alkyl naphthalene sulfonic acid, sodium salt     |            | <10             |
| other ingredients determined not to be hazardous |            | to 100          |

## HEALTH HAZARD INFORMATION

### HEALTH EFFECTS

#### ACUTE

**Toxicity** - This product is unlikely to present any acute hazard in normal use.

Swallowed: **LOW TOXICITY**  
Tests on rats indicate low toxicity following single doses of undiluted product.  
(LD<sub>50</sub> > 5000 mg/kg for a similar suspension concentrate formulation)  
(LD<sub>50</sub> = 3600 mg/kg for the active ingredient)

Dermal absorption: **LOW TOXICITY**  
Tests on rats indicate a low toxicity due to skin contact with the undiluted product.  
(LD<sub>50</sub> >2000 mg/kg for a similar suspension concentrate formulation)

Inhaled: **LOW TOXICITY**  
Toxic concentrations of the active ingredient were not attainable in test systems with rats. The inhalation toxicity is therefore considered to be low.  
(LC<sub>50</sub> (4hour) >6.84 mg/L for the active ingredient)  
(LC<sub>50</sub> (4hour) >5.8 mg/L for a 100 WP formulation)

**Irritation** - (based on studies with rabbits using a similar suspension concentrate formulation) -

Eye: **NON-IRRITANT**  
Skin: **NON-IRRITANT**

**Sensitisation** - (based on studies with rabbits using a similar suspension concentrate formulation) -

Skin: **NOT A SENSITISER**

**Poisoning symptoms** -

Accidental ingestion of large amounts of this product may cause the following adverse reactions: gastrointestinal disorders, dizziness, headache, blurring of vision, change in urine appearance and odour and hypersensitivity reactions.

**CHRONIC** (Active Ingredients)

**Thiabendazole technical** has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, carcinogenic or reproductive effects was obtained. Extremely high doses given to pregnant rats and mice resulted in some foetal abnormalities.

## FIRST AID

**In case of poisoning by any exposure route contact a doctor or Poisons Information Centre. Phone 131 126.**

Swallowed: If large quantities are ingested, drink plenty of water and seek medical attention.  
Eye: Flush with large quantities of clean tap water for at least 15 minutes.  
Skin: Avoid contact with skin. If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water.  
Inhaled: Move person to fresh air and keep at rest until recovered.

## ADVICE TO DOCTOR

No specific antidote exists. Treat symptomatically.

# PRECAUTIONS FOR USE

## ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

### EXPOSURE STANDARDS

No exposure standards have been set for the ingredients in this product.

**Exposure Potential** - Swallowing is unlikely under normal conditions of usage. Significant skin uptake does not occur. This product is mixed with water prior to use.

**Re-entry Period** - None recommended.

### ENGINEERING CONTROLS

No special requirements.

### PERSONAL PROTECTION

Wash hands after use.

### FLAMMABILITY

This product is NON-FLAMMABLE.

# SAFE HANDLING INFORMATION

## STORAGE AND TRANSPORT

Store in tightly sealed original containers in a dry secure place away from fertilisers, seed, feed and food. Store out of direct sunlight. Keep out of reach of children, unauthorised persons and animals.

### Transport Classification – Sea (IMDG):

|                       |      |                                |                                       |
|-----------------------|------|--------------------------------|---------------------------------------|
| <b>UN No.:</b>        | 3077 | <b>Proper Shipping Name:</b>   | ENVIRONMENTALLY HAZARDOUS             |
| <b>Class:</b>         | 9    |                                | SUBSTANCE, SOLID, N.O.S.              |
| <b>Packing Group:</b> | III  | <b>Additional Information:</b> | THIABENDAZOLE 43.3%, MARINE POLLUTANT |

## SPILLS AND DISPOSAL

In case of spillage it is important to take all steps necessary to:

- Avoid eye and skin contact.
- Avoid contamination of waterways

### **Procedure for spill:**

- (1) Keep all bystanders away.
- (2) Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves.
- (3) Reposition any leaking containers so as to minimise further leakage.
- (4) Dam and absorb spill with an absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed spill into drums.
- (6) Disposal of the absorbed material will depend upon the extent of the spill.
  - For quantities up to 50 L of product bury in a secure landfill site.
  - For quantities greater than 50 L seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established.
- (7) Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

### **Disposal of empty containers:**

Dispose of empty, used containers by:

- (a) Triple rinsing with water. Add the rinsings to the tank mix or dispose of rinsate in a disposal pit away from desirable plants and their roots, and watercourses. On-site disposal of undiluted product is unacceptable.
- (b) Breaking, crushing or puncturing the container to prevent reuse.
- (c) Disposing of in a local authority landfill site that does not burn its refuse. If there is no local authority landfill readily available in your area, bury the containers under at least 50 cm of soil at a licensed/approved disposal site. **DO NOT** burn empty containers or product.

### **Disposal of unused or spent dip:**

When used as a post harvest dip, unused or spent dip should be disposed of carefully to avoid contamination of water sources. Disposal may be done by either :

- spraying the dip onto a grassed area *or*
- pouring the dip into a disposal pit specifically marked and set up for this purpose, at least 50 metres away from any streams, drains, channels, wells, bore holes or water courses.

## FIRE/EXPLOSION HAZARD

This product is non-flammable and non-explosive. Extinguish warehouse and factory fires using fine-water spray or foam. Do not allow fire-water to enter drains.

## OTHER INFORMATION

This product is toxic to fish and crustaceans and harmful to algae.

|   |  |
|---|--|
| LC <sub>50</sub> , trout = ca. 1.3 mg/L | EC <sub>50</sub> (48h), water flea ( <i>Daphnia magna</i> ) = ca. 1.9 mg/L     |
| EC <sub>50</sub> , algae = ca. 21 mg/L  | EC <sub>50</sub> (96h), bay shrimp ( <i>Mysidopsis bahia</i> ) = ca. 0.8 mg/L. |

It is practically non-toxic to birds.

**Note:** This product is a registered agricultural chemical and must therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Federal health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

|                                    |   |
|------------------------------------|---|
| <b>CONTACT POINT:</b>              | Regulatory Affairs Manager - Crop Protection - (02) 8876 8444 |
| <b>24 HOURS EMERGENCY CONTACT:</b> | <b>1 800 033 111</b>  |

This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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