

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE:

Hazardous according to the criteria of NOHSC

COMPANY DETAILS:

Syngenta Crop Protection Pty Limited
A.C.N. 002 933 717
140-150 Bungaree Rd.,
PENDLE HILL, NSW, 2145

Telephone No.: (02) 9688 0444
24 Hours Emergency No.: 1 800 033 111

IDENTIFICATION

PRODUCT NAME: APRON® XL 350 ES Fungicide Seed Treatment

Formulation type:	emulsion	Dangerous Goods Class/ and Subsidiary Risk (ADG):	none allocated
Active Ingredients:	metalaxyl-M	Hazchem Code:	none allocated
Product Code No.:	A-9642 C	Packing Group:	none allocated
Chemical types	phenylamide	Poisons Schedule:	5
UN Number (ADG):	none allocated		

USE: Seed treatment for the control of *Phytophthora* stem rot of soybeans, damping-off caused by *Pythium* or *Phytophthora* of cotton, soybeans, peas, lucerne, subterranean clover, carrots, beetroot and downy mildew of maize, peas and radish and phytophthora root rot of chick peas.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Light red to dark red liquid	Flash point:	>103°C
Odour:	Weak, uncharacteristic	Flammability:	Non-flammable
Volatility:	not available	Behaviour in water:	Disperses

OTHER PROPERTIES

Specific gravity:	1.08 (20-25°C)	pH (1% in deion. water):	5 - 8
Surface tension:	30.0 - 30.8 mN/m (filtrate) (conc. 500g/L, 20°C)	Boiling point:	>90°C
Explosive properties	Not explosive.	Auto-ignition temp.:	435°C
Corrosiveness:	Non-corrosive	Combustibility:	C2 combustible
		Viscosity:	51.89 mPa.s (20°C)

INGREDIENTS -

	CAS No.	Content (%w/v)
metalaxyl-M (technical grade)		>35
to give metalaxyl-M	[70630-17-0]	35
methyl oxirane polymer with oxirane		<10
tristyrylphenol, 16 moles ethylene oxide		<10
ethoxylated polyacrylphenol phosphate		<10
other ingredients determined not to be hazardous		to 100

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE

Toxicity - This product is unlikely to present a toxicity hazard during normal use (WHO Hazard Class III)

Swallowed:

LOW TOXICITY

Tests on rats indicate a low toxicity following single doses of undiluted product.
(LD₅₀ > 1000 mg/kg, <3000 mg/kg)

Dermal absorption:	LOW TOXICITY Tests on rats indicate a low toxicity due to dermal contact with undiluted product. (LD ₅₀ >4000 mg/kg)
Inhaled:	NO DATA No tests have been conducted on the inhalation toxicity of this product. The product is a liquid applied as a seed treatment. There is little risk of inhalation of the product.
Irritation (based on studies with rabbits using undiluted product)-	
Eye:	MODERATE IRRITANT
Skin:	SLIGHT IRRITANT
Sensitisation	
Skin:	NOT A SENSITISER

Poisoning symptoms:

No case of human poisoning due to this product is on record. The poisoning symptoms observed for laboratory mammals were non-specific.

CHRONIC (Active Ingredients)

Metalaxyl-M, either as technical grade Metalaxyl-M or as a 50% component of technical grade metalaxyl, has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, teratogenic or reproductive effects was obtained.

FIRST AID

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

Swallowed:	If more than 15 minutes from emergency medical care, induce vomiting preferably using Ipecac Syrup (APF).
Eye:	Flush with large quantities of clean tap water for at least 15 minutes.
Skin:	Remove contaminated clothing and wash affected areas thoroughly with soap and water.
Inhaled:	Move affected 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 components of this product.

Exposure Potential - Swallowing is unlikely under normal conditions of usage. Significant skin uptake does not occur. Inhalation is an unlikely route of exposure as the product is applied as a seed treatment.

ENGINEERING CONTROLS

No special requirements. Product is used in enclosed application systems or in application equipment used outdoors.

PERSONAL PROTECTION

Will irritate the eyes and skin. Avoid contact with eyes and skin.

When opening the container and preparing the dilute solution wear

- cotton overalls buttoned to the neck and wrist (or equivalent clothing),
- elbow-length PVC gloves and
- face shield or goggles.

When using the prepared solution wear

- cotton overalls buttoned to the neck and wrist (or equivalent clothing) and
- elbow-length PVC gloves.

If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

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.

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 50L of product bury in a secure landfill site.
 - For quantities greater than 50L seek advice (use emergency contact number below) from the manufacturer 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.

Dispose of empty, used containers by:**(1) For Returnable Bulk containers**

- (a) Empty contents fully into application equipment.
- (b) Close all valves and return containers to point of supply for refilling or storage.

(2) For other containers

- (a) Triple rinse or preferably pressure rinse containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site.
- (b) If recycling, replace cap and return clean containers to recycler or designated collection point.
- (c) 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.

FIRE/EXPLOSION HAZARD

This product is non-flammable and non-explosive. Product is combustible. Extinguish warehouse and factory fires using fine-water spray or foam. During a fire this product may release smoke and hazardous decomposition products. When fighting a major fire wear an air-supplied respirator. Do not allow fire-water to enter drains.

OTHER INFORMATION

Metalaxyl-M technical is practically non-toxic to fish, birds and bees.

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.

CONTACT POINT: Regulatory Affairs Manager - Crop Protection - (02) 9688 0444
24 HOURS EMERGENCY CONTACT: 1 800 033 111

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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