

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE:

Not classified as hazardous according to the criteria of NOHSC

COMPANY DETAILS:

Syngenta Crop Protection Pty Limited
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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: MAXIM® XL Fungicide Seed Treatment

Formulation type:	suspension concentrate	Dangerous Goods Class/	
Active Ingredients:	fludioxonil	and Subsidiary Risk:	none allocated
	metalaxyl-M	Hazchem Code:	none allocated
Product Code No.:	A-9638 A	Packing Group:	none allocated
Chemical types	phenyl pyrrole	Poisons Schedule:	5
	phenylamide	WHO Hazard Class:	III
UN Number:	none allocated		

USE: Seed treatment for the control of damping off diseases caused by *Pythium* and *Rhizoctonia*, and seedling blackleg in canola.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Light red to dark red liquid	Flash point:	> 90°C
Odour:	Weak, like varnish	Flammability:	Non-flammable
Volatility (fludioxonil):	Henry's law constant (25°C): 5.4 x 10 ⁻⁵ Pa.m ³ /mol	Behaviour in water:	Disperses

OTHER PROPERTIES

Specific gravity:	1.02 - 1.06 (20°C)	pH (1% in deion. water):	5 - 9
Surface tension:	42.7 - 43.4 mN/m (filtrates of 0.1 g/L suspensions)	Boiling point:	~100°C
Explosive properties	Not explosive	Auto-ignition temp.:	460°C
Corrosiveness:	Non-corrosive	Combustibility:	Not combustible
		Viscosity:	dynamic
		range of shear RV 50 -250 rps	29.5 - 91.3 mPa.s (20°C) 22.8 - 73.5 mPa.s (40°C)

INGREDIENTS

	CAS No.	Content (%w/v)
fludioxonil (technical grade)		>2.5
to give fludioxonil	131341-86-1	2.5
metalaxyl-M (technical grade)		>1
to give metalaxyl-M	70630-17-0	1
dodecylbenzenesulfonic acid, triethanolamine salt	27323-41-7	<10
oleyl-polyglycol ether, 10 moles ethylene oxide	9004-98-2	<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 > 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:	LOW TOXICITY No inhalation toxicity tests have been conducted on this product. Based on the ingredients and their concentrations, the product is expected to have low inhalation toxicity.

Irritation (based on studies with rabbits using undiluted product)-

Eye: **SLIGHT 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 and transient only. The same can be expected for humans.

CHRONIC (Active Ingredients)

Fludioxonil technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, carcinogenic, teratogenic or reproductive effects was obtained.

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 swallowed, seek medical advice immediately and show container or label.
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. Since excretion of fludioxonil via the bile is significant, the application of medical charcoal in a large quantity of water and a laxative may be indicated even in cases when considerable time has elapsed since ingestion. NOTE: Never give anything by mouth to an unconscious person.

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. Skin uptake is possible route of exposure. Inhalation is an unlikely route of exposure as the product is applied as a seed treatment.

ENGINEERING CONTROLS

No special requirements. Ensure adequate ventilation if the product is used indoors.

PERSONAL PROTECTION

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

When opening container, preparing slurry and using the prepared slurry, wear:

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

Wash hands after use. After each days use, wash gloves and contaminated clothing.

Re-handling treated seed: When handling treated seeds, wear cotton overalls or equivalent clothing and chemical resistant gloves.

FLAMMABILITY

This product is NON-FLAMMABLE.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in closed original container in a cool, well ventilated area as cool as possible. Do not store for prolonged periods in direct sunlight. Keep out of reach of children, unauthorised persons and animals.

Transport Classification – Sea (IMDG):

UN No.:	3082	Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS
Class:	9		SUBSTANCE, LIQUID, N.O.S.
Packing Group:	III	Additional Information:	FLUDIOXONIL 2.5%, 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 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 water

Dispose of empty, used containers by:

- (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

Maxim XL is non-flammable and non-explosive. This product is a suspension in water. During a fire, after the water content has vaporised the remaining material is combustible and this product may release smoke and hazardous decomposition products. Extinguish warehouse and factory fires using fine-water spray or foam. When fighting a major fire wear an air-supplied respirator. Do not allow fire-water to enter drains.

OTHER INFORMATION

This product is harmful to fish and other aquatic organisms and toxic to algae. It is practically non-toxic to mammals, birds, bees and earthworms.

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) 8876 8444
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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