

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE:
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: SUBDUE® MAXX Fungicide

Formulation type:	emulsifiable concentrate	Dangerous Goods Class/ and Subsidiary Risk:	
Active Ingredients:	metalaxyl-M	Hazchem Code:	none allocated
Product Code No.:	A 9619C	Packing Group:	none allocated
Chemical types:	phenylamide	Poisons Schedule:	5
UN Number:	none allocated		

USE: Fungicide for the control of *Pythium* in turf.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Clear amber liquid	Flash Point:	>93.3°C
Odour:	Sweet and waxy	Flammability:	Non-flammable
Boiling/Melting point:	Not available	Combustibility:	C1 - combustible
Vapour pressure (25°C):	3.3×10^{-3} Pa (metalaxyl-M)	Behaviour in water:	Disperses
Specific gravity (H₂O=1)	1.1 (20°C)		

OTHER PROPERTIES

pH (1% aqueous):	7 – 9 (25°C)	Explosive properties:	Not explosive
Corrosiveness:	Non-corrosive	Viscosity:	216 cps (#2 spindle, 30 rpm)
Oxidising properties:	Not an oxidising substance	Volatility:	3.5×10^{-5} Pa·m ³ /mol (metalaxyl-M)

INGREDIENTS -

	CAS No.	Content (%w/v)
metalaxyl-M (technical grade)		>24
to give metalaxyl-M	70630-17-0	24
other ingredients determined not to be hazardous		to 100

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE

Swallowed:	NOT HARMFUL Tests on rats indicate this product is not harmful following single doses of undiluted product. (LD ₅₀ = 2084 mg/kg)
Dermal absorption:	NOT HARMFUL Tests on rats indicate this product is not harmful following skin contact with undiluted product. (LD ₅₀ >2020 mg/kg)
Inhaled:	NOT HARMFUL Tests on rats indicate this product is not harmful due to inhalation of product. (LC ₅₀ >2810 mg/m ³)

Eye: **Irritation** (based on studies with rabbits) -
MODERATE EYE IRRITANT
Skin: **NOT A SKIN IRRITANT**

Sensitisation -(based on results on guinea pigs).
Skin: **NOT A SENSITISER** (ie. skin allergy substance)

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

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 carcinogenic, 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: **DO NOT** induce vomiting. Give a glass of water. Get to a doctor.
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 established for the components of this product.

Exposure Potential - Swallowing is unlikely under normal conditions of usage. Skin uptake may occur with prolonged exposure. Inhalation is a possible route of exposure. This product is diluted with water prior to use as a spray. This diluted form is less toxic by all routes of exposure.

Re-entry Period - Do not enter treated areas without protective clothing until the spray has dried.

ENGINEERING CONTROLS

No special requirements. Product is used outdoors.

PERSONAL PROTECTION

Will irritate the eyes. Avoid contact with the eyes. When opening the container and preparing the spray wear:

- cotton overalls buttoned to the neck and wrist,
- a washable hat,
- elbow-length PVC gloves and
- face shield or goggles.

When using the prepared spray wear:

- cotton overalls buttoned to the neck and wrist and
- a washable hat.

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, 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

Dispose of empty, used containers by:

- (a) Triple rinsing or preferably pressure rinsing 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.

OTHER INFORMATION

Metalaxyl-M technical is practically non-toxic to fish, birds and bees. Bees, $LC_{50}/EC_{50} >25\mu\text{g}/\text{bee}$. Daphnia (water flea) $LC_{50}/EC_{50} >113$ ppm. Trout, $LC_{50}/EC_{50} >121$ ppm. Birds (8-day dietary – Bobwhite quail), $LC_{50}/EC_{50} 5620$ ppm.

Risk phrases:

R36 Irritating to eyes

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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