

## 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: CURACRON® 500 PRO INSECTICIDE**

<b>Formulation type:</b>	Emulsifiable concentrate	<b>UN number:</b>	3082
<b>Active ingredient:</b>	Profenofos Q	<b>Dangerous goods class:</b>	9
<b>Product code:</b>	R477/87/1, A-5775L	<b>Subsidiary risk:</b>	None allocated
<b>Chemical type:</b>	Organophosphate	<b>Hazchem code:</b>	2X
<b>Poisons schedule:</b>	6	<b>Packing group:</b>	III
		<b>EPG/IERG:</b>	9C1/47

**USE:** Insecticide for the control of Heliothis, mites and cotton aphids in cotton

**PHYSICAL DESCRIPTION/PROPERTIES**

<b>Appearance:</b>	Clear amber liquid	<b>Flash point:</b>	Not determined
<b>Odour:</b>	Strong and objectionable	<b>Flammability:</b>	Non-flammable
<b>Boiling/Melting point:</b>	Not determined	<b>Combustibility:</b>	Combustible C1
<b>Vapour pressure:</b>	Not determined	<b>Solubility in water:</b>	Emulsifiable
<b>Specific gravity:</b>	1.184 at 20°C		

**INGREDIENTS**

	CAS No.	Content (% w/v)
<b>Profenofos Q</b> (technical grade)		>50
to give <b>Profenofos Q</b>	41198-08-7	50
Various vegetable oils	-	10-<30
Aromatic hydrocarbon solvent	64792-94-5	40-60

### HEALTH HAZARD INFORMATION

**HEALTH EFFECTS**

**ACUTE TOXICITY**

This product is harmful according to NOHSC Australia.

Swallowed:	<b>HARMFUL</b> Tests on rats indicate this product is harmful following single doses of the active ingredient. (LD <sub>50</sub> = 358 mg/kg)
Dermal absorption:	<b>HARMFUL</b> Tests on rabbits indicate this product is harmful following skin contact with the active ingredient. (LD <sub>50</sub> = 472 mg/kg)
Inhaled:	<b>HARMFUL</b> Tests on rats indicate this product is harmful due to inhalation of the active ingredient. (LC <sub>50</sub> (4 h) = 3 mg/L air)

**Note:** The active ingredient, profenofos, can be rapidly absorbed through the skin. Poisoning may occur due to cholinesterase inhibition.

**Irritation**

Eye:	<b>SLIGHT IRRITANT</b>
Skin:	<b>MODERATE IRRITANT</b>
Respiratory System:	The offensive odour of this product may cause nausea.

**Sensitisation**Skin: **SENSITISER****Poisoning symptoms:**

No case of human poisoning due to this product is on record. Poisoning symptoms typical of organophosphate pesticides include nausea, diarrhoea, dripping nose and mouth, excessive salivation, stomach cramps, excessive sweating, trembling, loss of muscle co-ordination, muscular twitches, weakness, mental confusion, blurred vision, breathing difficulties, rapid pulse and pin-point pupils.

**CHRONIC TOXICITY (Active Ingredient)**

**Profenofos technical** has been extensively tested in mammals and in test-tube systems. No evidence of mutagenic, teratogenic or reproductive effects was obtained. Repeated minor exposure may cause a cumulative poisoning effect due to cholinesterase inhibition. Cholinesterase levels will return to normal a few weeks after exposure is stopped. The hydrocarbon liquid may cause narcosis and central nervous system depression following prolonged over-exposure.

**FIRST AID**

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

Swallowed: If swallowed, DO NOT induce vomiting. Give a glass of water. If swallowed give one atropine tablet every 5 minutes until dryness of the mouth occurs.

Eye: If product gets in eyes, hold eyes open, flush with running water for at least 15 minutes. If poisoning occurs give atropine tablets as above.

Skin: If skin contact occurs, remove contaminated clothing and wash affected areas thoroughly with soap and water. If poisoning occurs give atropine tablets as above. Wash contaminated clothing before re-use.

Inhaled: Move affected person to fresh air and keep at rest until recovered. If poisoning occurs give atropine tablets as above.

**ADVICE TO DOCTOR**

Treat as a cholinesterase inhibitor. Atropine sulphate is antidotal.

**PRECAUTIONS FOR USE****ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS****EXPOSURE STANDARDS**

<b>Ingredient</b>	<b>Occupational Exposure Limit</b>
Vegetable oil	10 mg/m <sup>3</sup> of air (NOHSC - time-weighted average)
Aromatic hydrocarbon solvent	100 ppm (recommended by the manufacturer of the hydrocarbon solvent)
No official exposure standards have been established for the other ingredients of this product.	

**Exposure Potential** - Swallowing is unlikely under normal conditions of usage. Inhalation of spray mist is a possible route of exposure. Skin uptake is the main route of exposure. Harmful amounts of profenofos may be absorbed through skin that comes into direct contact with the product.

**Re-entry Period** - Do not enter treated areas without protective clothing until 24 hours after spraying.

**ENGINEERING CONTROLS**

No special requirements. Product is used outdoors.

**PERSONAL PROTECTION**

Poisonous if absorbed by skin contact or swallowed. Will irritate the eyes and skin. Repeated minor exposure may have a cumulative poisoning effect. Avoid inhaling vapour or spray mist. Obtain an emergency supply of atropine tablets 0.6mg. When opening the container and preparing spray wear:

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

If clothing becomes contaminated with product, or wet with spray remove clothing immediately. If product or spray gets on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield and contaminated clothing. Only use protective equipment bearing the mark of the Standards Association of Australia.

**FLAMMABILITY**

This product is NON-FLAMMABLE, however it is combustible.

## 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. Store and transport according to the requirements for a Class 9 dangerous goods and a Schedule 6 poison.

#### Transport Classification – Land (ADG) and Sea (IMDG):

<b>UN No.:</b>	3082	<b>Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
<b>Class:</b>	9		LIQUID, N.O.S. (CONTAINS PROFENOFOS)
<b>Packing Group:</b>	III	<b>Additional Information:</b>	PROFENOFOS 50%, 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.
- Shut off all possible sources of ignition. DO NOT smoke.

#### *Procedure for spill:*

- (1) Keep all bystanders away.
- (2) Wear full length clothing and PVC gloves.
- (3) Re-position 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 material into drums and top with hydrated lime.
- (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 hydrated lime scattered over the spill prior to rinsing off with water.

#### *Dispose of empty, used containers by:*

- (a) Triple rinsing or preferably pressure rinsing containers. 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.

#### *Returnable containers:*

- (a) Empty contents fully into application equipment.
- (b) Close all valves and return to Syngenta Crop Protection, Pendle Hill, Sydney for re-use.

### FIRE/EXPLOSION HAZARD

This product is non-flammable, non-explosive and is combustible. Extinguish warehouse and factory fires using fine-water spray, fog or foam. During a fire this product may release smoke and hazardous decomposition products. When fighting a major fire wear a SCBA and structural firefighters uniform. Do not allow fire-water to enter drains.

### OTHER INFORMATION

The active ingredient **Profenofos** is highly toxic to fish, and moderately toxic to birds and bees. Do not contaminate ponds, waterways or drains with this product, used container, or equipment rinsings.

**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: 1 800 033 111</b>
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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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