

## SAFETY DATA SHEET

### Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name:</b>	<b>INSEGAR® WG Insect Growth regulator</b>
<b>Other Names:</b>	<b>Proper shipping name:</b> Environmentally Hazardous Substance, Solid, N.O.S. (Fenoxycarb). <b>Applicable only for marine and air transport</b>
	<b>Product code:</b> A8995B
<b>Recommended Use:</b>	For the control of certain insect pests in apples and pears
<b>Company Details:</b>	<b>Syngenta Crop Protection Pty Limited</b> ABN 33 002 933 717
<b>Address:</b>	<b>Level 1, 2-4 Lyonpark Road</b> <b>MACQUARIE PARK NSW 2113</b> <b>AUSTRALIA</b>
<b>Telephone Number:</b>	<b>(02) 8876 8444</b>
<b>Emergency Telephone Number:</b>	<b>24 hours - 1800 033 111</b>

### Section 2: HAZARDS IDENTIFICATION

<b>Hazard Classification:</b>	Not classified as a hazardous chemical according to the Australian criteria for the classification of chemicals
<b>Risk Phrases:</b>	-
<b>Safety Phrases:</b>	-

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	
<b>Chemical Identity of Pure Substance:</b>	Fenoxycarb
<b>Synonym:</b>	CGA114597
<b>CAS Number:</b>	79127-80-3

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/w )
Fenoxycarb	79127-80-3	25
Diatomaceous earth	61790-53-2	10 - <30
Other ingredients determined not to be hazardous	--	to 100

## Section 4: FIRST AID MEASURES

<b>Description of Necessary First Aid Measures:</b>	<p>In case of poisoning by any exposure route contact a doctor or Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.</p> <p><b>Ingestion:</b> If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.</p> <p><b>Eye contact:</b> Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.</p> <p><b>Skin contact:</b> Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.</p> <p><b>Inhalation:</b> Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Information Centre immediately.</p>
<b>Poisoning Symptoms:</b>	Poisoning symptoms are of cholinesterase inhibition
<b>Medical Advice:</b>	<p>Call Syngenta at the emergency number shown in this document, a poison control center or doctor immediately for treatment advice. Consider taking venous blood for determination of blood cholinesterase activity (use heparin tube). Administer atropine sulfate, either by intramuscular or intravenously, dependant on severity of poisoning. Since there is no therapeutic effect, the use of oxime preparations (or other cholinesterase reactivators) is contraindicated.</p>

## Section 5: FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	<p><i>Extinguishing media - small fires</i> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide extinguisher. DO NOT use direct jet of water.</p> <p><i>Extinguishing media - large fires</i> Use alcohol-resistant foam or water spray.</p> <p>DO NOT use direct jet of water.</p>
<b>Hazards from Combustion Products:</b>	This product contains combustible organic components that may burn and decompose during a fire producing dense black smoke containing hazardous products of combustion. Combustion products are toxic and /or irritant. Exposure to decomposition products may be a hazard to health.
<b>Special Protective Precautions and Equipment for Fire Fighters:</b>	When fighting a major fire wear self-contained breathing apparatus and protective equipment.

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures:</b>	In case of spillage it is important to take all steps necessary to <ul style="list-style-type: none"> <li>• Avoid eye and skin contact.</li> <li>• Avoid contamination of waterways</li> </ul>
<b>Methods and Materials for Containment and Clean Up:</b>	<p><b>Procedure for spill:</b></p> <ol style="list-style-type: none"> <li>(1) Keep all bystanders away.</li> <li>(2) Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves.</li> <li>(3) Reposition any leaking containers so as to minimise further leakage.</li> <li>(4) <b>For a product spill:</b> Sweep granule concentrates into a pile.</li> </ol> <p><b>For a prepared spray spill:</b> Dam and absorb spill with an absorbent material (e.g. sand or soil).</p> <ol style="list-style-type: none"> <li>(5) Shovel the absorbed spill into drums.</li> <li>(6) Disposal of the absorbed material will depend upon the extent of the spill.                 <ul style="list-style-type: none"> <li>• For quantities up to 50 kg of product bury in a secure landfill site.</li> <li>• For quantities greater than 50 kg seek advice (use emergency contact number below) from the manufacturer before attempting disposal. Contain in a secure location until disposal method is established.</li> </ul> </li> <li>(7) Decontaminate the spill area with detergent and water and rinse with water</li> </ol>

## Section 7: HANDLING AND STORAGE

<b>Precautions for Safe Handling:</b>	Avoid contact with eyes and skin. Wash hands after use.
<b>Conditions for Safe Storage:</b>	Keep out of reach of children. Store in the closed, original container in a cool, well-ventilated area.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS**

	<i>Component</i>	<i>Exposure limit</i>	<i>Value type</i>
<b>National Exposure Standards:</b>	Silica	10 mg/m <sup>3</sup>	TWA
<b>Syngenta Exposure Standards:</b>	Fenoxycarb	10 mg/m <sup>3</sup>	TWA
<b>Biological Limit Values:</b>	No biological limit allocated		
<b>Engineering Controls:</b>	Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne dust is generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.		
<b>Personal Protective Equipment:</b>	No specific personal protective equipment is required when used under normal conditions of use.		

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	grey to brown granule	<b>Boiling Point/Range:</b>	Not available
<b>Odour:</b>	weak	<b>Freezing/Melting Point:</b>	Not available
<b>pH:</b>	8 - 11 at 1 % w/v	<b>Solubility in water</b>	Dispersible
<b>Vapour Pressure:</b>	Not available	<b>Specific Gravity or Density:</b>	0.4 - 0.7 g/cm <sup>3</sup>

<b>Flash point:</b>	Does not flash	<b>Explosive properties:</b>	Not explosive
<b>Upper and Lower Flammable (Explosive) Limits in Air:</b>	Not highly flammable	<b>Oxidising properties:</b>	Not oxidising
<b>Ignition Temperature:</b>	Not available	<b>Combustibility:</b>	Not applicable
		<b>Corrosiveness:</b>	Not corrosive

## Section 10: STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable at normal ambient temperature and pressure.
<b>Conditions to Avoid:</b>	None known.
<b>Incompatible Materials:</b>	None known.
<b>Hazardous Decomposition Products</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours
<b>Hazardous Reactions:</b>	None known.

## Section 11: TOXICOLOGICAL INFORMATION

<b>Health Effects from Likely Routes of Exposure:</b>		
<b>Acute:</b>	<b>Oral toxicity:</b>	<b>LOW TOXICITY</b> Tests on rats indicate this product has low toxicity following single doses of the active ingredient. (LD <sub>50</sub> >10000 mg/kg)
	<b>Dermal toxicity:</b>	<b>LOW TOXICITY</b> Tests on rats indicate this product has low toxicity following skin contact with active ingredient. (LD <sub>50</sub> >2000 mg/kg)
	<b>Inhalation:</b>	<b>LOW TOXICITY</b> Tests on rats indicate this product is not harmful due to inhalation of the active ingredient. (LC <sub>50</sub> (4 h) >4.4 mg/L)
	<b>Skin irritation:</b>	<b>NOT AN IRRITANT (Rabbit)</b>
	<b>Eye irritation:</b>	<b>NOT AN IRRITANT (Rabbit)</b>
	<b>Sensitisation:</b>	<b>NOT A SKIN SENSITISER (Guinea Pig)</b>
<b>Chronic:</b>	Fenoxycarb did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.	

## Section 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	<p><i>Toxicity to fish:</i> <b>Moderately toxic to fish</b> <i>Salmo trutta</i> (trout): LC<sub>50</sub> = 9.4 mg/L, 96 h</p> <p><i>Toxicity to daphnia and other aquatic invertebrates:</i> <b>Moderately toxic to Daphnia</b> <i>Daphnia magna</i> (Water flea): EC<sub>50</sub> = 5.9 mg/L, 48 h</p> <p><i>Toxicity to algae:</i> <b>Moderately toxic to algae</b> <i>Pseudokirchneriella subcapitata</i> (green algae): EC<sub>50</sub> = 5.4 mg/L, 72 h</p> <p><i>Toxicity to soil dwelling organisms:</i> <b>Practically non-toxic to earthworms</b> <i>Eisenia foetida</i> (earthworm): LC<sub>50</sub> &gt;1000 mg/kg, 14 day</p> <p><i>Bees:</i> <b>Practically non-toxic to bees</b> <i>Apis mellifera</i> (honey bee): LD<sub>50</sub> oral &gt; 1000ppm</p>
<b>Persistence and Degradability:</b>	Fenoxycarb is not persistent in water and soil
<b>Mobility</b>	Fenoxycarb has low to slight mobility in soil
<b>Environmental Fate (Exposure):</b>	Incorporated into organic molecules
<b>Bioaccumulative Potential:</b>	Fenoxycarb does not bioaccumulate.

## Section 13: DISPOSAL CONSIDERATIONS

<b>Disposal Methods and Containers:</b>	Shake empty container into spray tank. DO NOT dispose of undiluted chemicals on site. Puncture or shred 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.
<b>Special Precautions for Landfill or Incineration:</b>	Not applicable

## Section 14: TRANSPORT INFORMATION

<b>LAND TRANSPORT ADG</b>	Not a dangerous good in Australia		
<b>UN Number:</b>	Not allocated	<b>Packing Group:</b>	Not allocated
<b>UN Proper Shipping Name:</b>	Not allocated	<b>Special Precautions for User:</b>	Not allocated
<b>Class:</b>	Not allocated	<b>Hazchem Code:</b>	Not allocated
<b>Subsidiary Risk:</b>	Not allocated		

<b>SEA TRANSPORT</b> IMDG			
<b>UN Number:</b>	3077	<b>Subsidiary Risk:</b>	Not allocated
<b>UN Proper Shipping Name:</b>	Environmentally Hazardous Substance, Solid, N.O.S (Fenoxycarb)	<b>Packing Group:</b>	III
<b>Class:</b>	9	<b>Marine Pollutant:</b>	Yes

<b>AIR TRANSPORT</b> IATA-DGR			
<b>UN Number:</b>	3077	<b>Subsidiary Risk:</b>	Not allocated
<b>UN Proper Shipping Name:</b>	Environmentally Hazardous Substance, Solid, N.O.S (Fenoxycarb)	<b>Packing Group:</b>	III
<b>Class:</b>	9		

### Section 15: REGULATORY INFORMATION

<b>APVMA Product Number:</b>	51224
<b>Poisons Schedule (SUSDP):</b>	Exempt

### Section 16: OTHER INFORMATION

<b>Date of preparation or last revision:</b> May 2010
<b>Source of Data:</b> The information provided in this SDS is sourced from Syngenta internal studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.
<b>Note:</b> This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions
<b>CONTACT POINT:</b> Regulatory Affairs Manager, Syngenta Crop Protection Pty Limited (02) 8876 8444 <b>24 HOURS EMERGENCY CONTACT: 1800 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 SDS 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.