

## SAFETY DATA SHEET

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

<b>Product Name:</b>	<b>SUPRACIDE 400 EC Insecticide</b>
<b>Other Names:</b>	<b>Proper shipping name:</b> Organophosphorus Pesticide, Liquid, Toxic, N.O.S. (Methidathion) <b>Product code:</b> A3389AM
<b>Recommended Use:</b>	Insecticide for the control of certain insect pests in various crops
<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>	Classified as a hazardous chemical according to the Australian criteria for the classification of chemicals
<b>Risk Phrases:</b>	R25 Toxic if swallowed. R26 Very toxic by inhalation. R21 Harmful in contact with skin R38 Irritating to skin.
<b>Safety Phrases:</b>	—

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE		
<b>Chemical Identity of Pure Substance:</b>	Methidathion	
<b>Synonym:</b>	GS13005	
<b>CAS Number:</b>	950-37-8	

  

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/v)
Methidathion	50-37-8	40
Dipropylene glycol dibenzoate	27138-31-4	30 - <60
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 get to a doctor or hospital quickly. Phone 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> <b>Medical Advice:</b>	<p>The symptoms are of cholinesterase inhibition</p> <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. Specific antidotes are oximes (e.g. Pralidoxime) or Toxogonin.</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. DO NOT use direct jet of water.</p>
<b>Hazards from Combustion Products:</b>	<p>This product contains combustible organic components that may burn and decompose during a fire producing dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health.</p>
<b>Special Protective Precautions and Equipment for Fire Fighters:</b>	<p>Wear full protective clothing and self-contained breathing apparatus.</p>
<b>Hazchem Code:</b>	<p>2X</p>

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures:</b>	<p>In case of spillage it is important to take all steps necessary to</p> <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 full length clothing and PVC gloves</li> </ol>

- (3) Reposition any leaking containers so as to minimise further leakage
- (4) Dam and absorb spill with an absorbent material (eg 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 hydrated lime scattered over the spill prior to rinsing off with water. Rinse with the smallest volume of water practicable

## Section 7: HANDLING AND STORAGE

<b>Precautions for Safe Handling:</b>	<p>Very dangerous, particularly the concentrate. Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes and skin. DO NOT inhale spray mist. Obtain an emergency supply of atropine tablets 0.6 mg. When opening container, preparing spray and using the prepared spray wear:</p> <ul style="list-style-type: none"> <li>• protective waterproof clothing</li> <li>• elbow length PVC gloves</li> <li>• full facepiece respirator with combined dust and gas cartridge (canister)</li> </ul> <p>If product or spray on skin wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each days use wash gloves, respirator (if rubber wash with detergent and warm water) and contaminated clothing.</p>
<b>Conditions for Safe Storage:</b>	<p>Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers.</p>

## 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>	No exposure standard allocated		
<b>Syngenta Exposure Standards:</b>	Methidathion	0.3 mg/m <sup>3</sup>	TWA
<b>Biological Limit Values:</b>	No biological limits allocated		
<b>Engineering Controls:</b>	No special requirements. Product is used outdoors.		

**Personal Protective Equipment:** Very dangerous, particularly the concentrate. Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes and skin. DO NOT inhale spray mist. Obtain an emergency supply of atropine tablets 0.6 mg. When opening container, preparing spray and using the prepared spray wear:

- protective waterproof clothing
- elbow length PVC gloves
- full facepiece respirator with combined dust and gas cartridge (canister)

If product or spray on skin wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each days use wash gloves, respirator (if rubber wash with detergent and warm water) and contaminated clothing.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Hazy yellow viscous liquid	<b>Boiling Point/Range:</b>	~230 °C
<b>Odour:</b>	Rotting egg odour	<b>Freezing/Melting Point:</b>	Not available
<b>pH:</b>	3 - 7	<b>Solubility:</b>	Miscible in water
<b>Vapour Pressure:</b>	Not available	<b>Specific Gravity:</b>	1.203 g/cm <sup>3</sup> at 20°C
<b>Vapour Density:</b>	Not available		

<b>Flash Point:</b>	>70°C (closed cup)	<b>Explosive Properties:</b>	Not explosive
<b>Upper and Lower Flammable (Explosive) Limits in Air:</b>	Not available	<b>Oxidising Properties:</b>	Not oxidising
<b>Ignition Temperature:</b>	Not available	<b>Combustibility:</b>	Combustible C1
		<b>Corrosiveness:</b>	Non corrosive

**Section 10: STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Stable under standard conditions.
<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. Hazardous polymerization does not occur.

## Section 11: TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:	
<b>Acute:</b>	<p><b>Oral toxicity:</b> <b>TOXIC</b>            Tests on rats indicate this product is toxic following single doses of a similar formulation.            (LD<sub>50</sub> = &gt;50 - &lt;100 mg/kg)</p> <p><b>Dermal toxicity:</b> <b>HARMFUL</b>            Tests on rats indicate this product a harmful following skin contact with a similar formulation.            (LD<sub>50</sub> = &gt;2000 mg/kg).  <b>Note:</b> The active ingredient, methidathion, can be rapidly absorbed through the skin. Poisoning may occur due to cholinesterase inhibition.</p> <p><b>Inhalation:</b> <b>VERY TOXIC</b>            Tests on rats indicate this product is very toxic due to inhalation of similar formulation.            (LC<sub>50</sub> (4h) = 0.218 mg/L air)</p> <p><b>Skin irritation:</b> <b>MODERATE IRRITANT</b></p> <p><b>Eye irritation:</b> <b>SLIGHT IRRITANT</b></p> <p><b>Sensitisation:</b> <b>NOT A SENSITISER</b></p>
<b>Chronic:</b>	<p><b>Methidathion technical</b> has been extensively tested on laboratory mammals and in test tube systems. No evidence of mutagenic, carcinogenic, teratogenic or reproductive effects was obtained. Chronic oral exposure to high levels of methidathion technical has been shown to result in hepatotoxic (i.e. liver toxic) effects in rats, mice, rabbits and dogs. In mice, prolonged administration of high doses has produced hepatic tumours. The relevance of these findings to humans is heavily doubted. 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</p>

## Section 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	<p><i>Toxicity to fish:</i> <b>Highly toxic to fish</b>  <i>Salmo trutta</i> (trout):            LC<sub>50</sub> = 0.025 mg/L, 96 h</p> <p><i>Toxicity to daphnia and other aquatic invertebrates:</i> <b>Very highly toxic to aquatic invertebrates</b>  <i>Daphnia magna</i> (Water flea):            EC<sub>50</sub> = 5.8 µg/L, 48 h</p> <p><i>Toxicity to algae:</i> <b>Slightly toxic to algae</b>  <i>Selenastrum capricornutum</i> (green algae):            E<sub>r</sub>C<sub>50</sub> = 26 mg/L, 72 h</p> <p><i>Toxicity to soil dwelling organisms:</i> <b>Highly toxic to earthworms</b>  <i>Eisenia foetida</i> (earthworm):            LC<sub>50</sub> = 5.6 mg/kg</p> <p><i>Bees:</i> <b>Highly toxic to bees</b></p>
<b>Persistence and Degradability:</b>	Methidathion is not persistent in water or soil.
<b>Mobility</b>	Methidathion has low mobility in soil
<b>Environmental Fate (Exposure):</b>	Methidathion is incorporated into organic molecules
<b>Bioaccumulative Potential:</b>	Methidathion has medium potential to bioaccumulate

### Section 13: DISPOSAL CONSIDERATIONS

<b>Disposal Methods and Containers:</b>	Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. 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
<b>Special Precautions for Landfill or Incineration:</b>	Not applicable

### Section 14: TRANSPORT INFORMATION

<b>LAND TRANSPORT</b> ADG			
<b>UN Number:</b>	3018	<b>Packing Group:</b>	III
<b>UN Proper Shipping Name:</b>	Organophosphorus Pesticide, Liquid, Toxic N.O.S. (Methidathion)	<b>Special Precautions for User:</b>	None allocated
<b>Class:</b>	6	<b>Hazchem Code:</b>	2X
<b>Subsidiary Risk:</b>	None allocated		

<b>SEA TRANSPORT</b> IMDG			
<b>UN Number:</b>	3018	<b>Subsidiary Risk:</b>	None allocated
<b>UN Proper Shipping Name:</b>	Organophosphorus Pesticide, Liquid, Toxic N.O.S. (Methidathion)	<b>Packing Group:</b>	III
<b>Class:</b>	6	<b>Marine Pollutant:</b>	Yes

<b>AIR TRANSPORT</b> IATA - DGR			
<b>UN Number:</b>	3018	<b>Subsidiary Risk:</b>	None allocated
<b>UN Proper Shipping Name:</b>	Organophosphorus Pesticide, Liquid, Toxic N.O.S. (Methidathion)	<b>Packing Group:</b>	III
<b>Class:</b>	6		

### Section 15: REGULATORY INFORMATION

<b>APVMA Product Number:</b>	33041
<b>Poisons Schedule (SUSDP):</b>	6

## Section 16: OTHER INFORMATION

**Date of preparation or last revision:** May 2010

**Source of Data:** 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.

**Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions**

**CONTACT POINT:** Regulatory Affairs Manager, Syngenta Crop Protection Pty Limited  
(02) 8876 8444

**24 HOURS EMERGENCY CONTACT: 1800 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 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.

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