

## SAFETY DATA SHEET

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

<b>Product Name:</b>	<b>Innova Picloram + MCPA 242 Herbicide</b>
<b>Other Names:</b>	<b>Product code:</b> A15792A
<b>Recommended Use:</b>	Agricultural herbicide for the control of climbing buckwheat, common sowthistle, skeleton weed, capeweed, doublegee and other broadleaf weeds in winter cereals and linseed 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 Lyon Park Road</b> <b>NORTH RYDE 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>	Hazardous according to the criteria of NOHSC Australia
<b>Risk Phrases:</b>	R20, R21, R22 – Harmful by inhalation, harmful in contact with skin and harmful if swallowed
<b>Safety Phrases:</b>	–

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	
<b>Chemical Identity of Pure Substance:</b>	MCPA (present as the potassium salt) / Picloram (present as the potassium salt)
<b>Synonym:</b>	ASF23 / ASF727
<b>CAS Number:</b>	5221-16-9 / 2545-60-0

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/v)
MCPA (present as the potassium salt)	5221-16-9	42.0
Picloram (present as the potassium salt)	2545-60-0	2.6
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> DO NOT induce vomiting. Give one glass of milk or water if available and transport to a medical facility. DO NOT give anything by mouth to an unconscious person.</p> <p><b>Eye contact:</b> Flush the contaminated eye(s) with gently flowing water until the product is removed or until irritation has ceased, while holding the eyelid(s) open. Remove contact lenses. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.</p> <p><b>Skin contact:</b> Remove contaminated clothing. Wash skin thoroughly with soap and water. Seek medical advice if irritation or an allergic reaction occurs.</p> <p><b>Inhalation:</b> Move person to fresh air. If effects occur contact a doctor.</p>
<b>Poisoning Symptoms:</b>	Poisoning symptoms in laboratory animals were non-specific
<b>Medical Advice:</b>	No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## Section 5: FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	In involved in a fire, the product will not burn. Use alcohol foam, CO <sub>2</sub> or dry chemical.
<b>Hazards from Combustion Products:</b>	During a fire, smoke may contain the original material in addition to combustion products of varying composition that may be toxic and / or irritating.
<b>Special Protective Precautions and Equipment for Fire Fighters:</b>	Wear positive-pressure, self-contained breathing apparatus and full protective clothing. DO NOT allow water from fire-fighting to enter water supplies.
<b>Hazchem Code:</b>	2X

## 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>	<b>Procedure for spill:</b> <ol style="list-style-type: none"><li>(1) Keep all bystanders away.</li><li>(2) Wear full length clothing and PVC gloves.</li><li>(3) Reposition any leaking containers so as to minimise further leakage.</li><li>(4) Dam and absorb spill with an absorbent material (e.g. sand or soil).</li><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 50L of product bury in a secure landfill site.</li><li>• For quantities greater than 50L seek advice from the manufacturer (use emergency contact number below) 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 the smallest volume of water practicable.</li></ol>

## Section 7: HANDLING AND STORAGE

<b>Precautions for Safe Handling:</b>	Harmful if swallowed. Attacks eyes. Will irritate the skin. Avoid contact with eyes and skin. If product in eyes, wash it out immediately with water. DO NOT inhale spray mist. When preparing the spray and using the prepared spray wear: <ul style="list-style-type: none"><li>• cotton overalls buttoned to the neck and wrist</li><li>• a washable hat</li><li>• elbow length PVC gloves</li><li>• goggles</li></ul> After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles and contaminated clothing.
<b>Conditions for Safe Storage:</b>	Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight. Triple, or preferably pressure rinse containers before disposal. Add rinsings to 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 not 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.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

<b>National Exposure Standards:</b>	No exposure standard allocated
<b>Biological Limit Values:</b>	No biological limit allocated
<b>Engineering Controls:</b>	No special requirements. Product is used outdoors
<b>Personal Protective Equipment:</b>	<p>Harmful if swallowed. Attacks eyes. Will irritate the skin. Avoid contact with eyes and skin. If product in eyes, wash it out immediately with water. DO NOT inhale spray mist. When preparing the spray and using the prepared spray wear:</p> <ul style="list-style-type: none"> <li>• cotton overalls buttoned to the neck and wrist</li> <li>• a washable hat</li> <li>• elbow length PVC gloves</li> <li>• goggles</li> </ul> <p>After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles and contaminated clothing</p>

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear dark brown liquid	<b>Boiling Point/Range:</b>	> 100°C
<b>Odour:</b>	Phenoxy odour	<b>Freezing</b>	< 0°C
<b>Vapour Pressure:</b>	286 x 10 <sup>-6</sup> mgHg @ 32°C (MCPA acid) 615 x 10 <sup>-7</sup> mgHg (picloram acid)	<b>Solubility:</b>	Soluble in water
<b>Vapour Density:</b>	No data	<b>Density:</b>	1.21 @ 20°C
<b>Ignition Temperature:</b>	No data	<b>Corrosiveness:</b>	Not corrosive
<b>Combustibility:</b>	Non combustible		

## Section 10: STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal storage conditions
<b>Conditions to Avoid:</b>	The concentrate or spray mix may react with acids and cause the MCPA to precipitate out.
<b>Incompatible Materials:</b>	Avoid oxidizing materials and strong acids
<b>Hazardous Decomposition Products:</b>	Hydrogen chloride and nitrogen oxides may be produced if this product is involved in a fire.
<b>Hazardous Reactions:</b>	None known.

## Section 11: TOXICOLOGICAL INFORMATION

### Health Effects from Likely Routes of Exposure:

<b>Acute:</b>	<b>Oral toxicity:</b>	Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however swallowing larger amounts may cause injury.
	<b>Dermal toxicity:</b>	Prolonged contact of the concentrate with skin will result in absorption of MCPA which can be harmful.
	<b>Inhalation:</b>	The components of the product are of low volatility and no adverse effects are expected from handling the concentrate.
	<b>Skin irritation:</b>	Prolonged contact with the concentrate may cause irritation.
	<b>Eye irritation:</b>	The concentrate may cause irritation to the eyes. Prolonged contact with the concentrate may cause damage to the eye.
	<b>Sensitisation:</b>	-

**Chronic:** Picloram and MCPA was not mutagenic, carcinogenic or teratogenic (at less than maternally toxic doses) and did not show reproductive effects in animal studies.

## Section 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	<p>Picloram is moderately toxic to aquatic organisms.                  LC<sub>50</sub> (96 h) 5.5 mg/L rainbow trout                  LC<sub>50</sub> 34.4 mg/L daphnia                  EC<sub>50</sub> 36.9 mg/L Selenastrum</p> <p>MCPA is of low toxicity to aquatic organisms                  LC<sub>50</sub> (96 h) 50 - 560 mg/L rainbow trout                  LC<sub>50</sub> (48 h) &gt;190 mg/L daphnia                  EC<sub>50</sub> 392 mg/L Selenastrum</p> <p>Picloram is practically non-toxic to birds                  LD<sub>50</sub> &gt; 2000 mg/kg chicks</p> <p>MCPA is of low toxicity to birds                  LD<sub>50</sub> &gt; 377 mg/kg chicks</p>
<b>Persistence and Degradability:</b>	<p>Picloram is quickly degraded by light and more slowly in soil with half-lives of 30 to 90 days.</p> <p>MCPA has a half life in soil of approx 7 days</p>
<b>Mobility</b>	Picloram has a high potential for mobility in soil
<b>Bioaccumulative Potential:</b>	<p>Picloram has a moderate potential for bioaccumulation</p> <p>MCPA has a low potential for bioaccumulation.</p>

### Section 13: DISPOSAL CONSIDERATIONS

<b>Disposal Methods and Containers:</b>	Triple or preferably pressure rinse containers before disposal. Add rinsings to 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	Not a dangerous good in Australia	
<b>UN Number:</b>	None allocated	<b>Packing Group:</b>	None allocated
<b>UN Proper Shipping Name:</b>	None allocated	<b>Special Precautions for User:</b>	None allocated
<b>Class:</b>	None allocated	<b>Hazchem Code:</b>	2X
<b>Subsidiary Risk:</b>	None allocated		

<b>SEA TRANSPORT</b>	Class 9	IMDG	
<b>UN Number:</b>	3082	<b>Packing Group:</b>	III
<b>UN Proper Shipping Name:</b>	Environmentally Hazardous Substance, Solid, N.O.S. (picloram and MCPA)	<b>Special Precautions for User:</b>	None
<b>Class:</b>	9	<b>Hazchem Code:</b>	2X
<b>Subsidiary Risk:</b>	None allocated	<b>Marine Pollutant:</b>	Marine pollutant

<b>AIR TRANSPORT</b> ICAO / IATA	Class 9		
<b>UN Number:</b>	3082	<b>Packing Group:</b>	III
<b>UN Proper Shipping Name:</b>	Environmentally Hazardous Substance, Solid, N.O.S. (picloram and MCPA)	<b>Special Precautions for User:</b>	None
<b>Class:</b>	9	<b>Hazchem Code:</b>	2X
<b>Subsidiary Risk:</b>	None allocated		

**Section 15: REGULATORY INFORMATION**

<b>APVMA Product Number:</b>	61620
<b>Poisons Schedule (SUSDP):</b>	5

**Section 16: OTHER INFORMATION**

<b>Date of preparation or last revision:</b> May 2007
<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.

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