

## SAFETY DATA SHEET

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

<b>Product Name:</b>	<b>GESAPRIM Granules 900 WG Herbicide</b>
<b>Other Names:</b>	<b>Proper shipping name:</b> Environmentally Hazardous Substance, Solid, N.O.S. (Atrazine) <b>Applicable only for marine and air transport</b>
	<b>Product code:</b> A5852M
<b>Recommended Use:</b>	Herbicide for the control of annual weeds in broom millet, TT-canola, lupins, maize, saccaline, sorghum, sugarcane, sweet corn and other 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>	R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
<b>Safety Phrases:</b>	—

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE		
<b>Chemical Identity of Pure Substance:</b>	Atrazine	
<b>Synonym:</b>	G30027	
<b>CAS Number:</b>	1912-24-9	

  

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/w)
Atrazine	1912-24-9	90
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 Control Centre immediately.</p>
<b>Poisoning Symptoms:</b>	Poisoning symptoms in laboratory animals were non-specific
<b>Medical Advice:</b>	There is no specific antidote available. Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	<p><i>Small fires</i>                  Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. DO NOT use a solid water stream as it may scatter and spread fire.</p> <p><i>Large fires</i>                  Alcohol-resistant foam or water spray. DO NOT use a solid water stream as it may scatter and spread fire.</p>
<b>Hazards from Combustion Products:</b>	<p>As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Combustion or thermal decomposition will evolve toxic and irritant vapours.                  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.                  Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.</p>

## 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 full length clothing and PVC gloves</li> <li>(3) Reposition any leaking containers so as to minimise leakage</li> <li>(4) <i>For a product spill:</i> Sweep granule concentrate into a pile. <i>For a prepared spray spill:</i> Dam and absorb spill with an absorbent material (e.g. sand or soil).</li> <li>(5) Shovel into drums</li> <li>(6) Disposal of the 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 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 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>	Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. When preparing spray and using the prepared spray wear elbow-length PVC gloves. 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.
<b>Conditions for Safe Storage:</b>	Store in the closed, original container in a cool, well ventilated area out of direct sunlight.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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

	Component	Exposure limit	Value type
<b>National Exposure Standards:</b>	Atrazine	5 mg/mg <sup>3</sup>	8h TWA
<b>Syngenta Exposure Standards:</b>	Atrazine	2 mg/mg <sup>3</sup>	8h TWA
<b>Biological Limit Values:</b>	No biological limits allocated		
<b>Engineering Controls:</b>	No special requirements. Product is used outdoors.		
<b>Personal Protective Equipment:</b>	Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. When preparing spray and using the prepared spray wear elbow-length PVC gloves. 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.		

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Light beige to brown granules	<b>Boiling Point/Range:</b>	100°C
<b>Odour:</b>	6.0 - 10.0 at 1 % w/v	<b>Freezing/Melting Point:</b>	Not available
<b>pH:</b>	6.0 - 10.0 at 1 % w/v	<b>Solubility:</b>	Miscible
<b>Surface tension:</b>	34.2 mN/m at 20°C	<b>Bulk Density:</b>	0.40 – 0.45 g/cm <sup>3</sup>

<b>Flammability (solid, gas):</b>	Not highly flammable	<b>Explosive Properties:</b>	Not oxidising
<b>Minimum Ignition Temperature:</b>	500°C	<b>Oxidising Properties:</b>	Not explosive
<b>Minimum Ignition Temperature:</b>	0.03 – 0.1 J	<b>Corrosiveness:</b>	Not corrosive
<b>Dust explosion class:</b>	Forms flammable dust clouds	<b>Burning number:</b>	2 at 20°C 2 at 100°C

## Section 10: STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Avoid strong acids and alkali materials.
<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

<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 a low toxicity following single doses of undiluted product. (LD <sub>50</sub> = 3,129 mg/kg)
	<b>Dermal toxicity:</b>	<b>LOW TOXICITY</b> Tests on rats indicate this product has a low toxicity following skin contact with undiluted product. (LD <sub>50</sub> > 5,050 mg/kg)
	<b>Inhalation:</b>	<b>VERY LOW TOXICITY</b> Tests on rats indicate this product is not harmful due to inhalation of undiluted product/. LC <sub>50</sub> (4h) > 2.67 mg/L air
	<b>Skin irritation:</b>	<b>NON IRRITANT</b>
	<b>Eye irritation:</b>	<b>NON IRRITANT</b>
	<b>Sensitisation:</b>	<b>NOT A SENSITISER</b>

**Chronic:** **Atrazine technical** has been extensively tested on laboratory mammals and in test-tube systems. No evidence was obtained of mutagenic, teratogenic or reproductive effects.  
 Sex and strain-specific mammary tumours observed in rats that have questionable significance for humans. Cardiotoxicity observed in a long-term, high dose dog study. No adverse effects in humans are expected at levels below the occupational exposure limit and when the product is handled and used according to the label

**Section 12: ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	<i>Toxicity to fish:</i>	<b>Slightly to moderately toxic to fish</b> <i>Lepomis macrochirus</i> (bluegill sunfish): LC <sub>50</sub> > 59 mg/L, 96h <i>Salmo trutta</i> (trout): LC <sub>50</sub> = 4.4 mg/L, 96 h
	<i>Toxicity to daphnia and other aquatic invertebrates:</i>	<b>Slightly toxic to aquatic invertebrates</b> <i>Daphnia magna</i> (Water flea): EC <sub>50</sub> >27.1 mg/L, 48 h
	<i>Toxicity to algae:</i>	<b>Very highly toxic to algae</b> <i>Pseudokirchneriella subcapitata</i> (green algae): EC <sub>50</sub> = 0.029 mg/L, 72 h
<b>Persistence and Degradability:</b>	Atrazine is not persistent in soil and is stable in water	
<b>Mobility:</b>	Atrazine has high mobility in soil	
<b>Bioaccumulative Potential:</b>	Atrazine has medium potential for bioaccumulation.	

**Section 13: DISPOSAL CONSIDERATIONS**

<b>Disposal Methods and Containers:</b>	Shake bag contents into spray tank until the bag is empty. 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>	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>	None allocated
<b>Subsidiary Risk:</b>	None allocated		

<b>SEA TRANSPORT</b>			
IMDG			
<b>UN Number:</b>	3077	<b>Subsidiary Risk:</b>	None allocated
<b>UN Proper Shipping Name:</b>	Environmentally Hazardous Substance, Solid, N.O.S. (Atrazine)	<b>Packing Group:</b>	III
<b>Class:</b>	9	<b>Marine Pollutant:</b>	Marine pollutant

<b>AIR TRANSPORT</b>			
IATA - DGR			
<b>UN Number:</b>	3077	<b>Subsidiary Risk:</b>	None allocated
<b>UN Proper Shipping Name:</b>	Environmentally Hazardous Substance, Solid, N.O.S. (Atrazine)	<b>Packing Group:</b>	III
<b>Class:</b>	9		

**Section 15: REGULATORY INFORMATION**

<b>APVMA Product Number:</b>	49552
<b>Poisons Schedule (SUSDP):</b>	5

**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.

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