

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Flowable GESAPRIM® 600 SC Liquid Herbicide
Other Names:	Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Atrazine) Applicable only for marine and air transport
	Product code: A13599A
Recommended Use:	Herbicide for the control of weeds and grasses in TT-canola, sorghum, maize, sugarcane, and lupins in non-agricultural areas and other crops
Company Details:	Syngenta Crop Protection Pty Limited ABN 33 002 933 717
Address:	Level 1, 2-4 Lyonpark Road MACQUARIE PARK NSW 2113 AUSTRALIA
Telephone Number:	(02) 8876 8444
Emergency Telephone Number:	24 hours - 1800 033 111

Section 2: HAZARDS IDENTIFICATION

Hazard Classification:	Classified as a hazardous chemical according to the Australian criteria for the classification of chemicals
Risk Phrases:	R48/22:Harmful: danger of serious damage to health by prolonged exposure if swallowed
Safety Phrases:	-

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

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

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (%w/v)
Atrazine	1912-24-9	60
Propylene glycol	57-55-6	<10
1,2-Benzisothiazol-3(2H)-one	2634-33-5	<0.2
Other ingredients determined not to be hazardous	-	to 100

Section 4: FIRST AID MEASURES

Description of Necessary First Aid Measures:	<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>Ingestion: If swallowed, seek medical advice immediately. Do NOT induce vomiting.</p> <p>Eye contact: 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>Skin contact: 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>Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poisons Information Centre immediately.</p>
Poisoning Symptoms:	Poisoning symptoms in laboratory animals were non-specific
Medical Advice:	There is no specific antidote available. Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	<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> Use alcohol-resistant foam or water spray. Do not use a solid water stream as it may scatter and spread fire.</p>
Hazards from Combustion Products:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Combustion or thermal decomposition will evolve toxic and irritant vapours. Exposure to decomposition products may be a hazard to health.
Special Protective Precautions and Equipment for Fire Fighters:	<p>Wear protective clothing and self-contained breathing apparatus.</p> <p>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

Emergency Procedures:	In case of spillage it is important to take all steps necessary to <ul style="list-style-type: none">• Avoid eye and skin contact• Avoid contamination of waterways
Methods and Materials for Containment and Clean Up:	Procedure for spill <ol style="list-style-type: none">(1) Keep all bystanders away(2) Wear full length clothing and PVC gloves(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<ul style="list-style-type: none">• 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 spill area with detergent and water and rinse with the smallest volume of water practicable

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing spray and using the prepared spray wear: <ul style="list-style-type: none">• cotton overalls buttoned to the neck and wrist (or equivalent clothing)• a washable hat• elbow-length PVC gloves If using a hand directed sprayer, wear, in addition: <ul style="list-style-type: none">• waterproof trousers• boots 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 and contaminated clothing.
Conditions for Safe Storage:	Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sun light.

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>
National Exposure Standards:	Atrazine	5 mg/m ³	8h TWA
	Propylene glycol particulates only vapour and particulates	10 mg/m ³ 474 mg/m ³	8h TWA 8h TWA
Syngenta Exposure Standards:	Atrazine	2 mg/m ³	8h TWA
Biological Limit Values:	No biological limits allocated		
Engineering Controls:	No special requirements. Product is used outdoors.		
Personal Protective Equipment:	<p>Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing spray and using the prepared spray wear:</p> <ul style="list-style-type: none"> cotton overalls buttoned to the neck and wrist (or equivalent clothing) a washable hat elbow-length PVC gloves <p>If using a hand directed sprayer, wear, in addition:</p> <ul style="list-style-type: none"> waterproof trousers boots <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 and contaminated clothing.</p>		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colour, physical form, shape	Boiling Point/Range:	Not available
Odour:	Non specific	Freezing/Melting Point:	Not available
pH:	Not available	Solubility:	Suspensible in water
Vapour Pressure:	Not available	Specific Gravity:	1.09 at 20°Cc
Viscosity:	400 – 700 cps		

Flash Point:	Does not flash	Explosive Properties:	Not available
Upper and Lower Flammable (Explosive) Limits in Air:	Non-flammable	Oxidising Properties:	Not available
Ignition Temperature:	Not available	Combustibility:	Non-combustible
		Corrosiveness:	Not corrosive

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Combustion or thermal decomposition will evolve toxic and irritant vapours.
Hazardous Reactions:	None known. Hazardous polymerization does not occur.

Section 11: TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:	
Acute:	<p>Oral toxicity: LOW TOXICITY Tests on rats indicate this product has a low toxicity following single doses of a similar formulation. (LD₅₀ >3,000 mg/kg)</p> <p>Dermal toxicity: LOW TOXICITY Tests on rats indicate this product has a low toxicity following skin contact with a similar formulation. (LD₅₀ > 4,000 mg/kg)</p> <p>Inhalation: LOW TOXICITY Tests on rats indicate this product is not harmful due to inhalation of a similar formulation. LC₅₀ (4h) > 2.03 mg/L air)</p> <p>Skin irritation: NON IRRITANT</p> <p>Eye irritation: NON IRRITANT</p> <p>Sensitisation: NOT A SENSITISER</p>
Chronic:	<p>Atrazine technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence was obtained of mutagenic, teratogenic or reproductive effects.</p> <p>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</p>

Section 12: ECOLOGICAL INFORMATION

This information is based on tests conducted with a similar formulation:	
Ecotoxicity:	<p><i>Toxicity to fish:</i> Slightly toxic to fish <i>Lepomis macrochirus</i> (bluegill sunfish): LC₅₀ = 56 mg/L, 96h <i>Cyprinus carpio</i> (common carp): LC₅₀ = 22 mg/L, 96 h <i>Salmo trutta</i> (trout): LC₅₀ = 18 mg/L, 96 h</p> <p><i>Toxicity to daphnia and other aquatic invertebrates:</i> Slightly toxic to aquatic invertebrates <i>Daphnia magna</i> (Water flea): EC₅₀ =60 mg/L, 48 h</p> <p><i>Toxicity to algae:</i> Very highly toxic to algae <i>Pseudokirchneriella subcapitata</i> (green algae): EC₅₀ = 0.041 mg/L, 72 h</p>
Persistence and Degradability:	Atrazine is not persistent in soil and is stable in water
Mobility:	Atrazine has high mobility in soil
Bioaccumulative Potential:	Atrazine has medium potential for bioaccumulation.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	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.
Special Precautions for Landfill or Incineration:	Not applicable

Section 14: TRANSPORT INFORMATION

LAND TRANSPORT ADG	Not a dangerous good in Australia		
UN Number:	None allocated	Packing Group:	None allocated
UN Proper Shipping Name:	None allocated	Special Precautions for User:	None allocated
Class:	None allocated	Hazchem Code:	None allocated
Subsidiary Risk:	None allocated		

SEA TRANSPORT IMDG			
UN Number:	3082	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Atrazine)	Packing Group:	III
Class:	9	Marine Pollutant:	Marine pollutant

AIR TRANSPORT IATA - DGR			
UN Number:	3082	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Atrazine)	Packing Group:	III
Class:	9		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	53892
Poisons Schedule (SUSDP):	5

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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