

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	LOGRAN[®] B-Power Herbicide
Other Names:	Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S. (Butafenacil and Triasulfuron) Applicable only for marine and air transport
	Product code: A12338A
Recommended Use:	Herbicide for the knockdown, pre-emergent and residual control of various weeds prior to planting wheat
Company Details:	Syngenta Australia Pty Ltd 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:	Not classified as a hazardous chemical according to the Australian criteria for the classification of chemicals
Risk Phrases:	—
Safety Phrases:	—

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE		
Chemical Identity of Pure Substance:	Butafenacil	Triasulfuron
Synonym:	CGA 276854	CGA 131036
CAS Number:	134605-64-4	82097-50-5

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/w)
Butafenacil	134605-64-4	200
Triasulfuron	82097-50-5	520
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 doctor. 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 doctor or Poisons Information Centre immediately</p>
Poisoning Symptoms:	Poisoning symptoms in laboratory animals were non-specific
Medical Advice:	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). Exposure to decomposition products may be a hazard to health
Special Protective Precautions and Equipment for Fire Fighters:	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

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 leakage(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).(5) Shovel into drums(6) If agricultural soil has been contaminated consider the option of removing and disposing of the contaminated soil to allow vegetation to grow and to stop further contamination.(7) Disposal of the material will depend upon the extent of the spill<ul style="list-style-type: none">• For quantities up to 50 kg of product bury in a secure landfill site• 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(8) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable(9) Clean all contaminated equipment by rinsing in a dilute solution of 1 litre sodium hypochlorite (0.2%) solution, to 200 litres of water

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Will irritate the eyes and skin. Avoid contact with eyes and skin. If product gets on skin, immediately wash area with soap and water. Wash hands after use. When opening container, preparing 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. After each day's use wash gloves and contaminated clothing.
Conditions for Safe Storage:	Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

National Exposure Standards:	No exposure standard allocated		
Syngenta Exposure Standards:	<i>Component</i>	<i>Exposure limit</i>	<i>Value type</i>
	Butafenacil	10 mg/m ³	TWA
	Triasulfuron	3 mg/m ³	TWA
Biological Limit Values:	No biological limits allocated		
Engineering Controls:	No special requirements. Product is used outdoors		
Personal Protective Equipment:	<p>Will irritate the eyes and skin. Avoid contact with eyes and skin. If product gets on skin, immediately wash area with soap and water. Wash hands after use. When opening container, preparing 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>After each day's use wash gloves and contaminated clothing.</p>		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light beige to brown granules	Boiling Point/Range:	Not available
Odour:	Weak	Freezing/Melting Point:	Not available
pH:	4-8 at 1% w/v	Solubility:	Not available
Vapour Pressure:	Not available	Bulk Density:	0.4-0.6 g/cm ³

Flammability (solid, gas):	Not highly flammable	Explosive Properties:	Not explosive
Minimum Ignition Temperature:	440°C	Oxidising Properties:	Not oxidising
Minimum Ignition Energy:	10 – 30 mJ	Corrosiveness:	Not corrosive
		Dust Explosion Class:	Forms flammable dust clouds
		Burning number:	2 at 20°C 2 at 100°C

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 = >2,000 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 = >2,000 mg/kg)</p> <p>Inhalation: LOW TOXICITY Tests on rats indicate this product is not harmful due to inhalation of active ingredients (LC₅₀ (4 hour) = >5,185 mg/L air, triasulfuron) (LC₅₀ (4 hour) = >5,100 mg/L air, butafenacil)</p> <p>Skin irritation: NON IRRITANT</p> <p>Eye irritation: NON IRRITANT</p> <p>Sensitisation: NOT A SENSITISER</p>
Chronic:	<p>Butafenacil and triasulfuron technical has been extensively tested on laboratory mammals and in test tube systems. No evidence was obtained of mutagenic, carcinogenic or teratogenic effects.</p>

Section 12: ECOLOGICAL INFORMATION

The following information was derived from components:	
Ecotoxicity:	<p><i>Toxicity to fish:</i> Slightly toxic to fish <i>Oncorhynchus mykiss</i> (rainbow trout): LC₅₀ = 20 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 >43 mg/L, 48 h</p> <p><i>Toxicity to algae:</i> Very highly toxic to algae <i>Pseudokirchneriella subcapitata</i> (green algae): E_rC₅₀ = 0.0125 mg/L, 72 h</p>
Persistence and Degradability:	<p>Butafenacil is persistent in soil or water Triasulfuron is persistent in soil or water</p>
Mobility	<p>Butafenacil has low mobility in soil Triasulfuron has medium mobility in soil</p>
Bioaccumulative Potential:	<p>Butafenacil does not bioaccumulate Triasulfuron has a low potential to bioaccumulate</p>

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	Rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. Dispose of at 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:	3077	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (Butafenacil and Triasulfuron)	Packing Group:	III
Class:	9	Marine Pollutant:	Marine pollutant

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

Section 15: REGULATORY INFORMATION

APVMA Product Number:	53545
Poisons Schedule (SUSDP):	Exempt

Section 16: OTHER INFORMATION

Date of preparation or last revision: March 2013

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 Manager, Syngenta Australia Pty Ltd
(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.

DISCLAIMER

This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Syngenta's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Syngenta shall have no liability.

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