


SAFETY DATA SHEET

Section 1: Identification: Product identifier and chemical identity

Product Identifier:	B-POWER Herbicide
Other Means of Identification:	Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Solvent Naptha and Butafenacil) Applicable only for marine and air transport Product code: A9735D
Recommended Use:	Improves control of a range of grass and broadleaf weeds when tank mixed with non-selective herbicides, in Fallow or prior to the establishment of Cereals, Canola and Pulses
Details of manufacturer or importer	Syngenta Australia Pty Ltd ABN 33 002 933 717
Address:	Level 1, 2-4 Lyonpark Road MACQUARIE PARK NSW 2113 AUSTRALIA
Website:	syngenta.com.au
Phone Number:	(02) 8876 8444
Emergency Phone Number:	24 hours - 1800 033 111

Section 2: Hazards identification

Classification of the Hazardous Chemical:	<ul style="list-style-type: none">• Eye irritation – Category 2• Carcinogenicity – Category 2• Aspiration hazard - Category 1
Signal Word:	Danger
Hazard Statement(s):	H304 May be fatal if swallowed and enters airways. H319 Causes serious eye irritation. H351 Suspected of causing cancer.
Precautionary Statement(s):	P280 Wear eye protection/face protection. P301 + P310 IF SWALLOWED: Immediately call a POISONS INFORMATION CENTRE or doctor/ physician. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331 DO NOT induce vomiting.
Hazard Symbols:	

Section 3: Composition and information on ingredients

SUBSTANCE	
Chemical Identity of Pure Substance:	Butafenacil
Synonym:	CGA276854
CAS Number:	134605-64-4

MIXTURE		
Chemical Identity of Ingredients:	CAS No	Proportion (%w/v)
Butafenacil	134605-64-4	10
Solvent naphtha (petroleum), heavy arom.	64742-94-5	75 - 85
Naphthalene	91-20-3	10 - < 20
Calcium dodecylbenzene sulphonate	26264-06-2	2.5 - < 3
2-ethyl-hexanol	61791-12-6	1 - 5
2-methylpropan-1-ol	78-83-1	1 - <3
Non-hazardous ingredients	-	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 and show this container or label. DO NOT induce vomiting: contains petroleum distillates and/or aromatic solvents.</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: Move the victim 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>
Symptoms Caused by Exposure:	<p>Poisoning symptoms in laboratory animals were non-specific. Aspiration may cause pulmonary oedema and pneumonitis.</p>
Medical Attention and Special Treatment:	<p>There is no specific antidote available. Treat symptomatically. DO NOT induce vomiting: contains petroleum distillates and/or aromatic solvents.</p>

Section 5: Fire fighting measures

Suitable Extinguishing Equipment:	<p>Small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</p> <p>Large fires: Alcohol-resistant foam or water spray. Do not use a solid water stream as it may scatter and spread fire.</p>
Specific Hazards Arising from the Chemical:	<p>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.</p> <p>Flash back possible over considerable distance.</p>
Special Protective Equipment and Precautions for Fire Fighters:	<p>Wear full protective clothing and self-contained breathing apparatus. DO NOT allow run-off from fire fighting to enter drains or water courses.</p> <p>Cool closed containers exposed to fire with water spray.</p>

Section 6: Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures:	<p>In case of spillage it is important to take all steps necessary to</p> <ul style="list-style-type: none"> • Avoid eye and skin contact • Avoid contamination of waterways • Wear full length clothing and PVC gloves • Keep all bystanders away
Environmental precautions:	<p>Prevent further leakage or spillage if safe to do so. DO NOT flush into surface water or sanitary sewer system.</p>
Methods and Materials for Containment and Clean Up:	<p>Procedure for spill</p> <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:	<p>Will irritate the eyes and skin. May irritate the nose and throat. Avoid contact with eyes and skin. DO NOT inhale vapour. When opening the container and preparing spray, wear</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist, • a washable hat, • elbow-length chemical resistant gloves, • goggles and • half face-piece respirator. <p>If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles, respirator and if rubber wash with detergent and water, and contaminated clothing.</p>
Conditions for Safe Storage, Including any Incompatibilities:	<p>Store in the closed, original container in a dry, cool, well ventilated locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. DO NOT store for prolonged periods in direct sunlight.</p>

Section 8: Exposure controls and personal protection

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

National Exposure Standards:	No exposure standard allocated		
	Component	Exposure limit	Value type
Syngenta Exposure Standards:	Butafenacil	5 mg/m ³	TWA
	2-ethyl-hexanol	200 ppm	TWA
	Solvent naphtha (petroleum), heavy arom.	8 ppm	TWA
		50 mg/m ³	TWA
	Naphthalene	10 ppm	TWA
		50 mg/m ³	TWA
	2-methylpropan-1-ol	10 ppm	TWA
		50 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. May irritate the nose and throat. Avoid contact with eyes and skin. DO NOT inhale vapour. When opening the container and preparing spray, wear</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist, • a washable hat, • elbow-length chemical resistant gloves, • goggles and • half face-piece respirator. <p>If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles, respirator and if rubber wash with detergent and water, and contaminated clothing.</p>		

Section 9: Physical and chemical properties

Appearance:	Light yellowish to light brown liquid	Boiling Point:	Not available
Odour:	Aromatic, like solvent	Freezing Point:	Not available
pH:	4 - 8 at 1 % w/v	Solubility:	Not available
Vapour Pressure:	Not available	Density:	1.00 - 1.04 g/ml at 20°C
Vapour Density:	Not available	Viscosity, dynamic:	6.9 mPa.s at 20°C 3.9 mPa.s at 40°C

Flash Point:	70°C at 1,013 hPa DIN EN 22719	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not available	Oxidising Properties:	Not oxidizing
Ignition Temperature:	Not available	Combustibility:	Combustible
		Corrosiveness:	Not available

Section 10: Stability and reactivity

Reactivity:	None reasonably foreseeable.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	No dangerous reaction known under conditions of normal use.
Conditions to Avoid:	No dangerous reaction known under conditions of normal use.
Incompatible Materials:	No information available.
Hazardous Decomposition Products:	No hazardous decomposition products are known.

Section 11: Toxicological information

Health Effects from Likely Routes of Exposure:		
Acute	Oral toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following single doses of undiluted product. LD ₅₀ > 2,000 mg/kg
	Dermal toxicity:	LOW TOXICITY Tests on rabbits indicate this product has a low toxicity following skin contact with undiluted product. LD ₅₀ > 2,000 mg/kg
	Inhalation:	LOW TOXICITY Tests on rats indicate this product is not harmful due to inhalation of active ingredient. LC ₅₀ (4h) > 5.10 mg/L air
	Skin irritation:	MODERATE IRRITANT
	Eye irritation:	MODERATE IRRITANT
	Sensitisation:	NOT A SENSITISER
	Chronic	Butafenacil technical has been extensively tested on laboratory mammals and in test tube systems. No evidence was obtained of mutagenic, carcinogenic, teratogenic neurotoxic or reproductive effects.

Section 12: Ecological information

Ecotoxicity	<p>Toxicity to fish: Moderately toxic to fish <i>Oncorhynchus mykiss</i> (Rainbow trout): LC₅₀ = 5.0 mg/L, 96 h</p> <p>Toxicity to daphnia and other aquatic invertebrates: Moderately toxic to Daphnia <i>Daphnia magna</i> (Water flea): EC₅₀ > 8.3 mg/L, 48 h</p> <p>Toxicity to algae: Very highly toxic to algae <i>Desmodesmus subspicatus</i> (Green algae): E_rC₅₀ = 0.0025 mg/L, 72 h</p>
Persistence and Degradability:	<p>Butafenacil is not readily biodegradable. Butafenacil is not persistent in water (Degradation half-life: 3 - 6 d). Butafenacil is not persistent in soil (Degradation half-life: < 7 d).</p>
Mobility in Soil:	Butafenacil has low to high mobility in soil
Bioaccumulative Potential:	Butafenacil does not bioaccumulate.

Section 13: Disposal considerations

Disposal Methods:	<p>For non-refillable containers: Triple 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 deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.</p> <p>For refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply/designated collection point for refill or storage.</p>
Special Precautions for Incineration or Landfill:	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
Transport Hazard Class:	None allocated	Hazchem or Emergency Action 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. (Solvent Naptha and Butafenacil)	Packing Group:	III
Transport Hazard Class:	9	Environmental hazards for Transport Purposes:	Marine pollutant

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

Section 15: Regulatory information

APVMA Product Number:	85430
Poisons Schedule (SUSMP):	Exempt

Section 16: Any other relevant information

Date of preparation or last revision: January 2019
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 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.