

SAFETY DATA SHEET

Section 1: Identification: Product identifier and chemical identity

Product Identifier:	CASPER® Turf Herbicide
Other Means of Identification:	Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (dicamba, prosulfuron) Applicable only for marine and air transport Product code: A14031E
Recommended Use:	For post-emergence control of broadleaf weeds in established turf
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:	Not classified as hazardous under GHS criteria.
Signal Word:	-
Hazard Statement(s):	-
Precautionary Statement(s):	-
Hazard Symbols:	-

Section 3: Composition and information on ingredients

SUBSTANCE		
Chemical Identity of Pure Substance:	Dicamba sodium salt	
Synonym:	SAN 837	
CAS Number:	1982-69-0	
Chemical Identity of Pure Substance:	Prosulfuron	
Synonym:	CGA 152005	
CAS Number:	94125-34-5	

MIXTURE		
Chemical Identity of Ingredients:	CAS No	Proportion (%w/v)
Dicamba sodium salt	1982-69-0	50
Prosulfuron	94125-34-5	5
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.</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 physician or poison control centre immediately.</p>
Symptoms Caused by Exposure:	Poisoning symptoms in laboratory animals were non-specific
Medical Attention and Special Treatment:	There is no specific antidote available. Treat symptomatically.

Section 5: Fire fighting measures

Suitable Extinguishing Equipment:	<p>Small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Extinguishing media - large fires Alcohol-resistant foam or Water spray Do not use a solid water stream as it may scatter and spread fire.</p> <p>Large fires: Use 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:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health.
Special Protective Equipment and Precautions 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

Personal Precautions, Protective Equipment and Emergency Procedures:	Refer to protective measures listed in sections 7 and 8. Avoid dust formation. Avoid contamination of waterways
Environmental precautions:	Do not flush into surface water or sanitary sewer system.

Methods and Materials for Containment and Clean Up:

Procedure for spill

- (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
 - 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:

May irritate the eyes. Avoid contact with eyes When using the prepared spray by low pressure hand wand, wear:

- cotton overalls, over normal clothing, buttoned to the neck and wrist
- a washable hat
- elbow-length chemical resistant gloves
- half face piece respirator

If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, contaminated clothing and respirator, if rubber, wash with detergent and warm water.

Conditions for Safe Storage, Including any Incompatibilities:

Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight.

Section 8: Exposure controls and personal protection

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

	Component	Exposure limit	Value type
National Exposure Standards:	No exposure standard allocated		
Syngenta Exposure Standards:	Prosulfuron	4 mg/m ³	TWA
Biological Limit Values:	No biological limits allocated		
Engineering Controls:	No special requirements. Product is used outdoors.		
Personal Protective Equipment:	May irritate the eyes. Avoid contact with eyes When using the prepared spray by low pressure hand wand, wear: <ul style="list-style-type: none"> • cotton overalls, over normal clothing, buttoned to the neck and wrist • a washable hat • elbow-length chemical resistant gloves • half facepiece respirator If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, contaminated clothing and respirator, if rubber, wash with detergent and warm water.		

Section 9: Physical and chemical properties

Appearance:	Light grey to brown granules	Boiling Point/Range:	No data available
Odour:	Earthy, loamy, slightly pungent	Freezing/Melting Point:	No data available
pH:	6 to 10 at 1% w/v	Solubility:	Suspensible in water
Vapour Pressure:	Not applicable	Bulk Density:	0.5 - 0.7 g/mL
Vapour Density:	No data available		

Flash Point:	No data available	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	No data available	Oxidising Properties:	Not an oxidiser
Ignition Temperature:	No data available	Combustibility:	No data available
		Corrosiveness:	Not corrosive

Section 10: Stability and reactivity

Reactivity:	No information available.
Chemical Stability:	Stable under standard conditions
Possibility of Hazardous Reactions:	None known. Hazardous polymerisation does not occur.
Conditions to Avoid:	No information available.
Incompatible Materials:	No information available.
Hazardous Decomposition Products:	Combustion or thermal decomposition will evolve toxic and irritant vapours.

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 a similar formulation LD ₅₀ = >2,000 mg/kg
	Dermal toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following skin contact with a similar formulation LD ₅₀ = >2,000 mg/kg
	Inhalation:	LOW TOXICITY Tests indicate this product has a low toxicity due to inhalation of active ingredients LC ₅₀ = >5,400 mg/m ³ (prosulfuron) LC ₅₀ = 4.46 mg/L (dicamba)
	Skin irritation:	NON IRRITANT Based on test results obtained with a similar formulation
	Eye irritation:	NON IRRITANT Based on test results obtained with a similar formulation
	Sensitisation:	NOT A SENSITISER

Chronic **Dicamba technical and prosulfuron technical** have 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	Toxicity to fish:	Practically non toxic to fish LC ₅₀ (96 hours) = >100 mg/L Rainbow trout (<i>Oncorhynchus mykiss</i>)
	Toxicity to daphnia and other aquatic invertebrates:	Practically non toxic to aquatic invertebrates EC ₅₀ (48 hours) = >100 mg/L Water flea (<i>Daphnia magna</i>)
	Toxicity to algae:	Highly toxic to algae E _b C ₅₀ (72 hours) = 0.249 mg/L E _r C ₅₀ (72 hours) = 0.319 mg/L Green algae (<i>Pseudokirchneriella subcapitata</i>)
	Toxicity to soil dwelling organisms:	No information available
Persistence and Degradability:	Dicamba:	Not persistent in water. Degradation half-life 35 to 46 days Not persistent in soil. Degradation half-life 1.4 to 11 days
	Prosulfuron:	Not persistent in water. Degradation half-life 45 to 60 days Not persistent in soil. Degradation half-life 11 days
Mobility in Soil:	Dicamba	Very highly mobile in soil
	Prosulfuron	Highly mobile in soil
Bioaccumulative Potential:	Dicamba:	Low potential for bioaccumulation
	Prosulfuron:	Low potential for bioaccumulation

Section 13: Disposal considerations

Disposal Methods: 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 deliver empty packaging for appropriate disposal 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.

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:	3077	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (prosulfuron)	Packing Group:	III
Transport Hazard Class:	9	Environmental hazards for Transport Purposes:	Marine pollutant

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

Section 15: Regulatory information

APVMA Product Number:	63890
Poisons Schedule (SUSMP):	Schedule 6

Section 16: Any other relevant information

Date of preparation or last revision: November 2016

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.