

CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

TITAN

CAZONE

HERBICIDE

ACTIVE CONSTITUENT: 400g/L CARFENTRAZONE-ETHYL
SOLVENTS: 452g/L LIQUID HYDROCARBON
100g/L N-METHYL-2-PYRROLIDONE

GROUP **14** HERBICIDE



For Potato haulm desiccation as an aid to harvest as per the Directions For Use.

APVMA Approval No.: 96478/149500

Pack Size: 250mL-1000L



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EC	Formulation Type Emulsifiable Concentrate
	IN A TRANSPORT EMERGENCY • DIAL 000 • POLICE OR FIRE BRIGADE
	TRANSPORT AND HANDLING NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE FOR TRANSPORT BY ROAD AND RAIL

DIRECTIONS FOR USE

Restraints: DO NOT apply by aerial application.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zone in the relevant buffer zone table below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

DO NOT apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a MEDIUM spray droplet size category.
- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory downwind buffer zones' section of the following table titled 'Buffer Zones for Boom Sprayers') are observed.

Buffer Zones for Boom Sprayers						
Application rate	Boom height above the target canopy	Mandatory downwind buffer zones (metres)				
		Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
Up to maximum label rate	0.5m or lower	0	10	0	20	0
	1.0m or lower	0	35	0	60	0
115mL/ha or lower	0.5m or lower	0	5	0	15	0
	1.0m or lower	0	30	0	50	0

SITUATION	TIME OF APPLICATION	RATE	CRITICAL COMMENTS
Potato haulm desiccation (burn down of potato leaves and stems as an aid to harvest)	When Potato tubers are at the desired size	115-150 mL/ha + TITAN Duelling Spray Adjuvant	Potato tubers should be fully developed and at the required size for harvest. Some senescence of the tops may be evident. Crops showing some natural senescence may desiccate more quickly than crops still actively growing. Haulm kill may be slower than that from Diquat. TITAN Cazone Herbicide is suitable for use on all varieties of potatoes for seed and fresh use. Delay digging for 2 to 3 weeks after the final application to ensure skin on the tuber is hardened sufficiently to minimise damage from the digging operation. Apply in a sufficiently high water volume (300-600L/ha) to ensure good coverage of haulms. Use of the highest spray pressure through low drift air induction nozzles may assist in depositing spray onto the stem. TITAN Cazone Herbicide does not translocate to the tuber, but avoid spraying if the tops are wilting due to dry stress, as the final level of desiccation may be reduced. TITAN Cazone Herbicide is not known to cause stem end browning or other physiological problems in stored tubers. Single application: In light to medium density crops which have started to senesce, a single application may be sufficient to allow harvesting to occur. Split application: In dense and still actively growing crops where no natural senescence is evident, a split application at least 7 days apart may be required for satisfactory haulm control. The first application (115 to 150mL/ha) allows burn down of most of the tops and the follow up application (115 to 150mL/ha) will help complete desiccation of the leaves and provide better burn down of the stems.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

WITHHOLDING PERIODS:

Harvest: NOT REQUIRED WHEN USED AS DIRECTED.

Grazing: NOT REQUIRED WHEN USED AS DIRECTED.

EXPORT SLAUGHTER INTERVAL (ESI): An export slaughter interval is not required when used as directed.

GENERAL INSTRUCTIONS

TITAN Cazone Herbicide is an emulsifiable concentrate formulation and is to be mixed with water and applied as per the labelled Directions For Use. TITAN Cazone Herbicide should be **mixed** with TITAN Duelling Spray Adjuvant for desiccation of Potato crops. TITAN Cazone Herbicide is a fast-acting and plant desiccation can occur within 4 days of application. Extremes in environmental conditions eg. temperature and moisture, soil conditions and cultural practices may affect the activity of TITAN Cazone Herbicide. Under warm moist conditions, desiccation symptoms may be accelerated, while under very dry conditions, the expression of desiccation symptoms is delayed and plants hardened off by drought are less susceptible to TITAN Cazone Herbicide.

MIXING

Add half the required volume of water to spray tank and start agitation. Add the measured amount of TITAN Cazone Herbicide, then add balance of water to tank and TITAN Duelling Spray Adjuvant. Maintain good agitation at all times until spraying is completed. DO NOT store spray mixture over night.

APPLICATION

The best application conditions are when soil is moist, weather fine and rain unlikely within 1 hour. Apply TITAN Cazone Herbicide as a broadcast application using a conventional boom sprayer with either mechanical or by-pass agitation. Spray equipment should be properly calibrated to ensure correct and uniform application. Use a spray volume of 300-600 L/ha. Experience has shown that increasing spray volumes can improve efficacy. Use the lowest pressure and boom height which provides uniform coverage. Use the higher volume if crop is dense.

SPRAYER CLEAN OUT

After the use of TITAN Cazone Herbicide

Thoroughly clean all spray equipment using the following procedure when you have finished spraying highly active materials such as carfentrazone-ethyl. In addition to the following procedure, ensure proper equipment clean out for any other products mixed with TITAN Cazone Herbicide as specified on the other product labels.



Important: More complete cleaning can be achieved if the spray equipment is cleaned immediately following each use.

Mix only as much spray solution as needed at a time. DO NOT store the sprayer for any extended period of time, especially overnight with TITAN Cazone Herbicide spray solution remaining in the tank, spray lines, spray boom plumbing, spray nozzles or strainers.

Preparation of the Cleaning Solution: Prepare a spray equipment cleaning solution by mixing an appropriate tank and equipment cleaner at label rate in clean water, or mixing 3L of cloudy ammonia solution (containing at least 3% of active) per 100L of clean water. Upon completion of applying TITAN Cazone Herbicide and before spraying sensitive crops including Canola, Pulses such as Faba Beans, Lentils, other Legumes and Cotton:

1. Fill the spray tank with sufficient cleaning solution to allow the operation of the spray system for a minimum of 15 minutes to thoroughly flush hoses, spray boom and spray nozzles then fill the spray tank to capacity to ensure contact of the solution with all internal surfaces. Let the cleaning solution soak in tank, pump and spray lines overnight.
2. Before further use of the sprayer, operate the spray system for 15 minutes, then completely drain the sprayer system. Rinse the tank with clean water and flush through the hoses, spray boom and spray nozzles.
3. Immediately prior to commencement of spraying a sensitive crop, purge the boom lines by operating the spray system onto a fence line or waste area for sufficient time to remove any solution that has been residing in the spray lines. This is also recommended for subsequent tank loads or if the sprayer has been left standing for a period of time containing spray solution.
4. If storing equipment for more than 48 hours, preferred practice is to clean spray equipment as outlined above allowing to soak overnight, drain and flush with fresh water and leave fresh water in the spray tank, hoses and spray booms until next use. This water must be drained from the spray boom and lines and flushed out with clean water before beginning any application to a sensitive crop. Properly dispose of all cleaning solution and rinse safely in accordance with Federal, State and Local regulations and guidelines. DO NOT apply sprayer cleaning solutions or rinsate to sensitive crops.

Should small quantities of TITAN Cazone remain in inadequately cleaned mixing, loading and/or spray equipment, they may be released during subsequent applications potentially causing effects to sensitive crops and other vegetation. The above method is only effective if the cleaning solution comes into contact with every surface or contact point that may contain even minute carfentrazone-ethyl residues.

CROP PLANTBACK & ROTATION RECOMMENDATIONS

TITAN Cazone Herbicide does not provide residual activity, therefore no crop plantback or rotational restrictions apply. However, check the label of any product mixed with TITAN Cazone Herbicide, to determine any plantback periods or restrictions on use.

RESISTANT WEEDS WARNING

TITAN Cazone Herbicide is a member of the Aryl triazoline group of herbicides. Its mode of action is through a process of membrane disruption, which is initiated by the inhibition of the enzyme protoporphyrinogen oxidase. This inhibition interferes with the chlorophyll biosynthetic pathway. For weed resistance management Titan Cazone Herbicide is a Group 14 herbicide. Some naturally occurring weed biotypes resistant to Titan Cazone Herbicide and other Group 14 herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by TITAN Cazone Herbicide or other Group 14 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, TITAN AG Pty Ltd accepts no liability for any losses that may result from the failure of TITAN Cazone Herbicide to control resistant weeds.

PRECAUTIONS

Re-entry Period: DO NOT allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Highly toxic to algae and aquatic plants. DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. 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 500mm 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.

Refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Harmful if inhaled. May irritate the nose and throat. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. DO NOT inhale vapour or spray mist. When preparing the product for use and using the product wear elbow-length chemical resistant gloves. When opening the container, mixing and loading and preparing spray, wear cotton overalls, over normal clothing, buttoned to the neck and wrist and face shield or goggles. If applying by hand wear cotton overalls, over normal clothing, buttoned to the neck and wrist and face shield or goggles. 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, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766. If swallowed, do NOT induce vomiting. If in eyes, wash out immediately with water.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Cazone Herbicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit titanag.com.au

CONDITIONS OF SALE: TITAN AG Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on TITAN AG's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of TITAN AG Pty Ltd has any authority to add to or alter these conditions.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Combustible liquid. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects. Precautionary Statements: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting. In case of fire: Use CO₂, powder or water spray to extinguish. Collect spillage. Store in well-ventilated place. Store locked up. Dispose of contents/container in accordance with local/regional/national/ international regulations.

