



Cortex Duo

INDUSTRIAL HERBICIDE

DIRECTIONS FOR USE

Restraints

DO NOT spray if weeds are wet.
DO NOT apply if rainfall is expected before spray deposits dry on plant surfaces.
DO NOT water treated area for 24 hours to achieve maximum results.
DO NOT apply if heavy rains or storms are forecast within 3 days.
DO NOT irrigate to the point of field runoff for at least 3 days after application.
DO NOT allow spray to contact or drift onto plants you do not want killed.
NOT suitable for use in the home garden.

Additional timing restriction apply in orchards, vineyards, and forestry situations; see restriction table below.

Timing Restrictions

Situation	Region	DO NOT apply during the months:
Orchards and vineyards with bare soil interrow	Victoria	December to February
	South Australia	December to May
	Burdekin	October
	Mackay/Whitsunday	June to December
	Mary/Burnett	October to November
Orchards and vineyards with pasture interrow	SE Queensland	October to January
	Mackay/Whitsunday	September to December
Forestry	Victoria	December to May
	South Australia	September to February
	Western Australia	Use not supported
	Mary/Burnett	Use not supported
	SE Queensland	Use not supported

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 zones 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 inversion 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 are not smaller than a COARSE spray droplet size category.
- downwind sensitive areas are observed (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers').

Buffer zones for boom sprayers

Application rate	Boom height above the target canopy	Mandatory downwind buffer zones	
		Bystander areas	Natural aquatic areas
Up to 7 L/100 L, 1400 L/ha	0.5 m or lower	0 metres	30 metres
	1.0 m or lower	10 metres	75 metres

SITUATION	WEEDS	RATE	CRITICAL COMMENTS
Around commercial and industrial buildings: Paths, Driveways, Roadsides, Around Sheds, Gardens, Spot Spraying in Lawns and Turf	Amenity horticulture areas, Protected cropping situations, Around Nursery Stock	70 mL per litre of water	Spray to completely cover weed surface. Reapplication at around 14 days may be necessary if regrowth occurs. This product may damage lawn and turf when used as a spot spray. Perennial weed species may require repeated applications to obtain long term control. To control weeds in Protected cropping situations apply on each side of the crop row taking care not to allow spray to contact any of the crop foliage.
Forestry		7 L per 100 litres water.	To assist in site preparation apply at early vegetative stage of weeds. Best results are obtained at 4- 8 leaf stage when weed canopy is less than 15 cm in height. Established weeds may require more than one application. Repeat spray after 14 days if required. Spray over all weed foliage to ensure full foliage penetration and coverage. Partial foliage penetration or coverage will result in partial control.
Around commercial and industrial buildings: Gardens, Paths, Rockeries, Tiled Roofs, Walls, Driveways	Algae, Lichen, Liverwort, Moss	70 mL per litre of water	Spray to completely cover plant surface. For drives or heavy infestations, clean off by brushing after 3 days and reapply if necessary.

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

WITHOLDING PERIODS

Harvest: NOT REQUIRED WHEN USED AS DIRECTED.

Grazing: DO NOT GRAZE TREATED WEEDS

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 the 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.

STORAGE AND DISPOSAL

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers. Toxic to beneficial arthropods. Not compatible with integrated pest management (IPM) programs utilising beneficial arthropods. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas. If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766. If swallowed, do NOT induce vomiting. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

FIRST AID

Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves and face shield or goggles. When using the prepared spray wear gantlet-length chemical resistant gloves and face shield or goggles. Wash hands after use. After each day's use wash gloves, face shield or goggles, and contaminated clothing.

SAFETY DIRECTIONS

Empty containers fully into application equipment. Close all valves and return to point of supply/designated collection point for refill or storage. For Refillable Containers: Empty containers fully into application equipment. Close all valves and return to point of supply/designated collection point for refill or storage.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions from spraying equipment that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

MIXING

Half fill spray tank and commence agitation. Slowly add required amount of CORTEX DUO. Top up with required quantity of water. Agitate well before commencing spray procedure. Do not mix more than is needed.

APPLICATION

Ensure that all weed foliage is totally covered with spray as CORTEX DUO is a contact spray only. Partial coverage will give only partial control. Apply by ground equipment only using for example boom or spot sprayers. Apply using a coarse droplet spray. Optimum application volumes are related to weed maturity and density. Contact with the weeds is essential for control, as such apply in sufficient water to ensure complete and thorough coverage of foliage. For established weeds and higher weed density, it is recommended to use a suitable wetter. DO NOT spray porous surfaces without prior testing. May cause discolouration on porous hard surfaces.

PRECAUTIONS

Wear eye protection when mixing or using.

Re-Entry Period for the general public

Do not allow entry into treated areas until spray has dried.

Re-Entry Period for the occupational users

DO NOT enter treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. Clothing must be laundered after each days' use.

GENERAL INSTRUCTIONS

ProForce CORTEX DUO Industrial Herbicide contains a non-selective contact herbicide nonanoic acid and a contact residual herbicide, oxyfluorfen. Nonanoic acid occurs in plants including geraniums. It acts on the foliage, causing it to quickly dehydrate and collapse. Results are seen as browning and wilting usually within hours of application. To be effective, CORTEX DUO must come into contact with the green parts of the plant. Oxyfluorfen provides residual control of weeds for up to 3 months.

RESISTANT WEEDS WARNING

ProForce CORTEX DUO Industrial Herbicide is a member of the Diphenyl ether group of herbicides. The mode of action of CORTEX DUO is the inhibition of protoporphyrinogen oxidase (PPO inhibitors). For weed resistance management CORTEX DUO is a Group 14 Herbicide. Some naturally occurring weed biotypes resistant to CORTEX DUO and other Group 14 herbicides may exist through normal genetic variability in any weed population. The resistant weeds can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by CORTEX DUO or other Group 14 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Indigo Specialty Products Pty Ltd accepts no liability for any losses that may result from the failure of CORTEX DUO to control resistant weeds.

SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for ProForce CORTEX DUO Industrial Herbicide is available from Indigo Specialty Products Pty Ltd on request.

CONDITIONS OF SALE:

Seller warrants that the product conforms to its chemical description and its reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty (other than non-excludable statutory warranties) of merchantability or fitness for a particular purpose, express or implied, extends to the use of product contrary to label instructions, or under off-label permits not endorsed by Indigo Specialty Products Pty Ltd or under abnormal conditions. Indigo Specialty Products Pty Ltd accepts no liability for any loss or damage arising from incorrect storage, handling or use.

CAUTION

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

Cortex Duo

INDUSTRIAL HERBICIDE

GROUP 14 HERBICIDE

ACTIVE CONSTITUENT: 525 g/L NONANOIC ACID
15 g/L OXYFLUORFEN

For non-selective residual control of seedling and young broadleaf and grass weeds, for suppression of established weeds and perennial species and for control of moss and algae as per the directions for use.

IMPORTANT: THIS LEAFLET IS PART OF THE LABEL. ATTACHED TO THE CONTAINER. READ THOROUGHLY BEFORE OPENING OR USING THIS PRODUCT.

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SPECIALTY PRODUCTS