



MATERIAL SAFTEY DATA SHEET

Clodia 300 EC

IDENTIFICATION OF THE SUPPLIER:

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PRODUCT IDENTIFICATION:

Common Name:	clodinafop-propargyl	cloquintocet-mexyl
Trade Name:	Clodia 300 EC	
Uses category:	Herbicide	Herbicide safener
Type of formulation:	Emulsifiable Concentrate (EC)	
Chemical Name:	prop-2-ynyl (R)-2-[4-(5-	1-methylhexyl (5-
	chloro-3-fluoropyridin-2-	chloroquinolin-8-
	yloxy)phenoxy]propionate	yloxy)acetate
Chemical Formula:	C ₁₇ H ₁₃ CIFNO ₄	$C_{18}H_{22}CINO_3$
Molecular Weight:	349.7	335.8

PRODUCT COMPOSITION:

Active Ingredient: clodinafop- propargyl cloquintocet-mexyl Inert materials:

% w/v CAS # 24.5% [105512-06-9] 6.5% [99607-70-2] up to 1 liter







HAZARDS IDENTIFICATION:

Hazard Classification:	Classified as a hazardous chemical according to the Australian criteria for the classification of chemicals
Risk Phrases:	R36/38 Irritating to eyes and skin. R43 May cause sensitisation by skin contact.

FIRST-AID MEAUSRES:

Ingestion:	If swallowed, seek medical advice immediately. DO NOY induce vomiting: contains petroleum distillates and/or aromatic solvents
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
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
Inhalation:	Move 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
Poisoning Symptoms:	No specific symptoms occur.
Antidote:	There is no specific antidote available. Treat symptomatically.

FIRE-FIGHTING MEASURES: -

Suitable Extinguishing Media:	Small fires Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. DO NOT uses a solid water stream as it may scatter and spread fire. Large fires Use alcohol-resistant foam. DO NOT use a solid water stream as it
	may scatter and spread fire







Hazards from Combustion Products:	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	Wear full protective clothing and self-contained
Precautions and	breathing apparatus. DO NOT allow run-off from
Equipment for Fire	fire fighting to enter drains or water courses.
Fighters:	Cool closed containers exposed to fire with water spray
Precautions and Equipment for Fire	combustion. Exposure to decomposition products may be a hazard to health 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

ACCIDENTAL RELEASE MEASURE:

Emergency Procedures:	 In case of spillage it is important to take all steps necessary to Avoid eye and skin contact Avoid contamination of waterways
Methods and Materials for Containment and Clean Up:	 Avoid contamination of waterways Procedure for spill Keep all bystanders away Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves Reposition any leaking containers so as to minimise further leakage Dam and absorb spill with an absorbent material (eg sand or soil) Shovel the absorbed spill into drums 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
	(7) Decontaminate spill area using hydrated lime





PERSONAL PROTECTION/SAFTETY:

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS National Exposure Standards:

Component	Exposure limit	Value type
Clodinafop-propargyl	1 mg/ m^3	TWA
Cloquintocet-mexyl	10 mg/ m ³	TWA

Biological Limit Values: No biological limits allocated

Engineering Controls: No special requirements. Product is used outdoors **Personal Protective Equipment:**

Harmful if swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid inhaling spray mist. Avoid contact with eyes and skin. When opening the container, preparing spray and using the product wear:

- cotton overalls buttoned to the neck and wrist (or equivalent clothing)
- a washable hat
- elbow-length butyl rubber gloves
- face shield or goggles

If product gets on skin, immediately wash area with soap and water. If product gets in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

HANDLING AND STORAGE:

Precautions for Safe Handling:

Harmful if swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid inhaling spray mist. Avoid contact with eyes and skin. When opening the container, preparing spray and using the product wear:

- cotton overalls buttoned to the neck and wrist (or equivalent clothing)
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Conditions for Safe Storage:

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

STABILITY AND REACTIVITY:	
Chemical Stability:	Stable under normal conditions
Conditions to Avoid:	None known
Incompatible Materials:	None known
Hazardous	Combustion or thermal decomposition will
Decomposition Products:	evolve toxic and irritant vapors.
Hazardous Reactions:	None known Hazardous polymerization does not
	occur

PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: yellow to light brown Odor: characteristic odor Density: 1.09 g/ml ± 0.05 PH: 4.7 Flammability: Non flammable Explosivity: Non explosive Corrosion: Non corrosive.







TOXICOLOGICAL INFORMATION:

Health Effects from Likely Routes of Exposure:

Oral toxicity:

LOW TOXICITY Tests on rats indicate this product has a low toxicity following single doses of undiluted product. (LD50 = 2,276 mg/kg)

Dermal toxicity:

LOW TOXICITY Tests on rats indicate this product has a low toxicity following skin contact with undiluted product. (LD50 > 4,000 mg/kg)

Inhalation:

LOW TOXICITY Tests on rats indicate this product is not harmful due to inhalation of undiluted product. LC50 (4h) > 3,500 mg/m3) Skin irritation: irritant Eye irritation: irritant Sensitisation: sensetiser

Chronic:

Clodinafop-propargyl and cloquintocet-mexyl 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. The aromatic hydrocarbon mixture may cause central nervous system depression and narcosis

ECOLOGICAL INFORMATION: -		
Toxicity to fish:	Moderately toxic to fish Salmo trutta (trout): LC50 = 4.9 mg/L, 96 h Cyprinus carpio (common carp): LC50 = 6.3 mg/L, 96h	
Toxicity to daphnia and	Moderately toxic to aquatic invertebrates Daphnia	
other aquatic invertebrates:	magna (Water flea): EC50 = = 5.9, 48 h	
Toxicity to algae:	Moderately toxic to algae Pseudokirchneriella subcapitata (green algae): EbC50 = 5.36 mg/L, 72 h	
Persistence and	Cloquintocet-mexyl is not persistent tin soil or	
Degradability:	water. Clodinafop-propargyl is not persistent tin soil or water.	





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Mobility

Cloquintocet-mexyl is immobile in soil. Clodinafop-propargyl ha low mobility in soil Cloquintocet-mexyl does not bioaccummulate. Clodinafop-propargyl does not bioaccummula

DISPOSAL CONSIDERATIONS:

Bioaccumulative Potential:

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 bury empty containers in 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.

