

CIELO ULV Declaration of Labelling

Label affixed to container:

1. Product Identification

Product name: CIELO™¹ ULV

Other names: NEBULA™¹ ULV, POLARIS™¹ ULV

This product is an Ultra Low Volume (UL) formulation packaged in:

- (i) 1L Plastic (Fluorinated PET) bottle (15 bottles in a case)
- (ii) 10L Plastic (Fluorinated HDPE) bottle
- (iii) 208L Stainless steel drum lined with epoxy/phenolic coating

Manufactured for Clarke International LLC by:

- i) Clarke Mosquito Control Products, Inc.
159 North Garden Avenue
Roselle, Illinois 60172 U.S.A.

Phone: +1 630-671-3146

Email: mgaither@clarke.com

Website: <https://www.clarke.com/>

and

- ii) Agricultura Nacional S.A. de C.V.
Km 5 Carretera Las Bocas
Barrio Santiago Mihuacan
Izucar de Matamoros
CP 74400, Puebla, Mexico

Phone: +52 (243) 436 2282

Email: smanzanares@dragon.com.mx

Distributed by:

Clarke or local distributor

Lot number, and dates are marked on individual packaging units in format example below: -

Lot Number: (10-digit code e.g. 1901100002)

Date: DD/MM/YYYY

Expiry Date: DD/MM/YYYY

Net Contents: 1.14kg (1L bottle)

11.4 kg (10L container)

236 kg (208L Drum)

¹ CIELO, NEBULA, POLARIS are Trademarks of Clarke International LLC

2. Ingredient Statement

Imidacloprid (CAS # 138261-41-3):	3.00% w/w
Prallethrin (CAS # 23031-36-9):	0.75% w/w
Other Ingredients:	96.25% w/w
Total:	100% w/w

Imidacloprid is a neonicotinoid in IRAC group 4A

Prallethrin is a pyrethroid in IRAC Group 3A

3. Safety

Precautions:

- DO NOT eat, drink, or smoke when using this product
- KEEP OUT OF REACH OF CHILDREN
- WASH HANDS after use and before consuming food
- Remove contaminated clothing and wash before reuse.
- DO NOT store in homes

Warnings:

Avoid contact with eyes and skin. Use the proper protective equipment during the preparation and application of the product: goggles, mask, chemical-resistant gloves, overalls and boots. Do not apply against the wind. For indoor application, evacuate people during application and for an additional 15 minutes. Before applying the product, protect food, kitchen appliances, and pets.

First Aid:

If Swallowed: Immediately call a physician. Do not induce vomiting unless told to do so by a physician. Do not attempt to give anything by mouth.

If Inhaled: Remove person to fresh air and call a physician.

Skin Contact: Wash with plenty of soap and water, seek medical Attention if irritation appears.

Eye Contact: Immediately flush with water for 10 to 15 minutes and look for medical attention.

Blue colour band for WHO Class III product (Slightly hazardous), signal word- CAUTION.

Environmental Protection

This product is toxic to birds, fish, and aquatic invertebrates. Avoid contamination of soils, rivers, ponds, streams, and other waters by handling or disposal of insecticide or containers. This product is

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highly toxic to bees exposed to direct treatment. Avoid application to blooming harvest at flower or when bees are visiting, except when application is made to prevent or control a threat to public health from mosquito-borne disease.

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal. Do not store near heat or open flame. Store in a dry and cool place away from food and feed. Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to application Federal, State, or local guidelines.

Container Handling

Non-refillable container. Do not reuse this container for any other purpose.

In Case of Spill

Use personal protective equipment and recover spilled product with an absorbent material, collect wastes into a sealed container and take it to the nearest authorized center of hazardous waste collection

4. Directions for Use

Cielo™ ULV is a ready to use insecticide for indoor and outdoor use that controls adult mosquitoes of the *Aedes aegypti* and *Aedes albopictus* species. It is approved for application as an ultra-low volume (ULV) non-thermal cold aerosol mist for indoor and outdoor urban, residential, institutional, industrial and recreational areas where mosquitoes are a problem.

Cielo™ ULV is a ready-to-use product, normally applied undiluted. For some indoor application sprayers, it may be necessary to dilute to allow appropriate calibration of the sprayer. Use equipment that can be calibrated to apply the labeled rates indoors for Cielo™ so that dilution would not be required. Do not mix with any other insecticide, oil, or fuel. Do not dilute with water. Cielo™ must not be mixed with water or oil. The spray equipment must be clean and free from any insecticide residue that has been used previously. Flush and drain the entire spray system with isopropyl alcohol, including: the inside of the spray tank, line filters, all spray lines, spraying, pumping system and spray nozzle, tank and piping tank and valve. Avoid storing excess product in the equipment.

Outdoor Use

For best results treat when mosquitoes are most active and weather conditions are conducive to keeping the spray cloud close to the ground. An inversion of air temperatures and a light breeze are preferable. Apply only when ground wind speed is greater than 1 km/hour but less than 20 km/hour. Apply Cielo™ through standard ultra-low volume cold aerosol equipment. Apply undiluted at a rate of 88 to 146 mL per hectare. Adjust equipment flow rate according to vehicle speed rate using a swath width of 91.5 m for calculation. An accurate flow meter must be used to ensure the proper flow rate.

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mL Cielo™ ULV per Hectare	Dose - Imidacloprid (g/ha)	Dose – Prallethrin (g/ha)	mL Cielo™ ULV per minute at Vehicle Speed	
			10 KPH	15 KPH
88	3	0.75	134	201
117	4	1	179	268
146	5	1.25	223	335

Indoor Use

Spray Cielo™ ULV using portable, electric or gas-powered, ULV cold aerosol application equipment at a rate of 8.8 mL to 14.6 mL per 1000 m². This is equivalent to a dose of 0.3 to 0.5 g Imidacloprid per 1000 m².

mL Cielo™ ULV per 1000 m ²	Dose Imidacloprid (g)	Dose Prallethrin (g)
8.8	0.3 g	0.075 g
14.6	0.5 g	0.125 g

Droplet Size Determination

For application as an ultra-low volume (ULV) non-thermal cold aerosol spray mist, equipment should be adjusted so that the volume median diameter (VMD) is between 15 and 20 microns and that 90% of the spray is contained in droplets smaller than 50 microns. [Accepted methods for measuring droplet size include A.I.M.S., hot wire technology, including the DCIII and DCIV, as well as traditional slide wave methods]. For Teflon coated slides use a spread factor of 0.71.

5. Product Claims

- First two-way insecticide combination for Space Spraying to control Aedes Mosquitoes
- Combines two unrelated modes of action acting on different target sites
- It is appropriate for use in space spray rotational programs
- Provides robust performance compared to either active ingredient applied alone
- Effective against *Aedes Aegypti* and *Aedes Albopictus* in both indoor (portable equipment) and outdoor (truck-mounted sprayers) uses as a cold-fogging application.
- ULV formulation (without need for dilution) improving convenience, particularly for outdoor uses