

Label

GROUP	4	10	HERBICIDE
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Glufosinate PLUS

SOLUTION

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION) ONLY

COMMERCIAL

ACTIVE INGREDIENTS: glufosinate-ammonium.....146 g/L
Quinclorac, present as dimethylamine salt.....15 g/L

REGISTRATION NUMBER: 34802 PEST CONTROL PRODUCTS ACT

READ THIS LABEL AND ATTACHED BROCHURE BEFORE USING

Farmer's Business Network Canada, Inc.
PO Box 5607
High River, Alberta
Canada T1V 1M7

Product Information: 1-844-200-FARM (3276)

NET CONTENTS: 13.5 to 1000 L

SPECIMEN

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

Wash thoroughly after using and before eating, drinking or smoking.

- Wear a long-sleeved shirt, long pants, a hat, chemical-resistant gloves, socks and rubber boots during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during mixing and loading. Gloves are not required during application within a closed cab.
- If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
- Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
- Application is limited to agricultural crops only when there is low risk of drift to areas of human habitation or activity such as houses, cottages, schools and recreational areas, taking into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings. **USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.**
- Keep in original container during storage.
- Do not contaminate drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
- As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.
- When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.
- When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

CAUTION: Do not mix Glufosinate PLUS with pesticides, fertilizers or any other chemical additives unless recommended on this label.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at www.croplife.ca.

ENVIRONMENTAL PRECAUTIONS:

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under **DIRECTIONS FOR USE**. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment. Avoid spray drift to susceptible plants and **USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.**

LEACHING

This product demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of quinclorac in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

RUN-OFF

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

FIRST AID:

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

TOXICOLOGICAL INFORMATION:

Treat symptomatically. Medical personnel should contact CANUTEC collect at 1-613-996-6666 or *666 24 hours a day.

Note to Physician: If this product is ingested, endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and sodium sulfate administration.

STORAGE:

Store this product away from food or feed.

CANNOT be stored below freezing. If stored for one year or longer, shake well before using. Store in original, tightly closed container away from feeds, seeds, fertilizers, plants and foodstuffs. Herbicides should be shipped or stored separately from other pesticides to avoid cross-contamination. Store in cool, dry, locked, well-ventilated area without floor drain. DO NOT use or store in or around the home.

DISPOSAL:

Recyclable Container Disposal: DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

Returnable Container Disposal: DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Refillable Container Disposal: For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

Disposal of Unused, Unwanted Product: For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

Disposal of Unused Spray Solution: If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, away from water supplies, ditches, and irrigation canals.

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

SPECIMEN

Brochure

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ENVIRONMENTAL PRECAUTIONS:

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LEACHING

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RUNOFF

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

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Disposal of Unused, Unwanted Product: For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

Disposal of Unused Spray Solution: If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, away from sensitive habitats, water supplies, ditches, and irrigation canals.

GENERAL INFORMATION

Glufosinate PLUS provides control of a broad spectrum of grassy and broadleaf weeds in canola varieties and hybrids that are specially developed to be tolerant to glufosinate ammonium. Glufosinate PLUS is registered for ground application to glufosinate ammonium tolerant canola varieties or hybrids [varieties or hybrids labelled with LibertyLink®]. Glufosinate PLUS may also be applied to glufosinate ammonium tolerant canola lines or varieties grown for seed production.

If rainfall occurs within 6 hours of application, effectiveness may be reduced.

Glufosinate PLUS is a selective herbicide. Avoid contact with desirable plants either from direct application or from spray drift as severe damage may occur. Crop injury may result if Glufosinate PLUS is applied to a crop stressed by severe weather conditions, frost, drought, water-saturated soil, low fertility, disease or insect damage.

Glufosinate PLUS works as a contact and systemic herbicide. Thorough coverage of the plant tissue to be controlled is essential.

Glufosinate PLUS breaks down rapidly in the soil.

RECRIPPING RESTRICTIONS

Due to the application of glufosinate ammonium and the residual activity of quinclorac in the soil, land treated with Glufosinate PLUS cannot be rotated to crops other than specified in the table below. To avoid injury to rotational crops, the minimum recropping intervals must be followed.

Minimum re-cropping intervals

Crop*	Minimum re-cropping intervals	Notes
Canola	Immediately	Canola can be re-planted in the same season as Glufosinate PLUS applications.
Wheat (spring and durum) and spring barley	70 days	-
Field peas, sunflowers, flax, and lentils	10 months	These crops and the crops listed above can be planted the year following application of Glufosinate PLUS.
Oats	12 months	

*In the event of crop failure, only canola may be reseeded in fields treated with Glufosinate PLUS.

Glufosinate PLUS should not be used on land where potatoes or vegetables are part of the rotation.

The company recommends that a field bioassay (a test strip grown to maturity) be conducted the year before growing any crops other than those listed above.

On lighter soils with low organic matter or under dry conditions, some crop injury may occur particularly in flax and lentils but will not reduce yield. Under these conditions, the minimum recropping interval for flax and lentils should be extended by 12 months.

MIXING INSTRUCTIONS

Glufosinate PLUS must be applied with properly calibrated clean equipment.

Glufosinate PLUS is specially formulated to mix readily in water. Prior to adding Glufosinate PLUS to the spray tank, ensure that the spray tank is thoroughly clean (see "CLEANING INSTRUCTIONS").

1. Fill tank one-half full of clean water prior to adding Glufosinate PLUS.
2. Add the correct amount of Glufosinate PLUS.
3. Add the remaining amount of water, begin agitation, and spray out immediately. Agitation should be running during the entire mixing procedure.

NOTE: Ensure that all circuits (pipes, booms, etc.) have the correct Glufosinate PLUS /water concentration before application is started.

NOTE: The addition of an anti-foaming agent may reduce foaming, especially when using soft water.

TANK-MIXES:

NOTE: When tank mixing Glufosinate PLUS, always add the tank mix partner to the tank first, ensure that it is thoroughly mixed, and then add Glufosinate PLUS.

Glufosinate PLUS and FBN Clethodim 240 or Advantage Clethodim 240: Glufosinate Ammonium Tolerant Canola only (varieties or hybrids labelled LibertyLink)

FBN Clethodim 240 or Advantage Clethodim 240 may be tank-mixed with Glufosinate PLUS for control of certain broadleaf and grass weeds in glufosinate ammonium tolerant canola varieties in one spray operation.

Follow all precautions, limitations and timing recommendations on the Glufosinate PLUS label.

Mixing Instructions:

1. Thoroughly clean the sprayer by flushing the system with water containing detergent.
2. Fill clean spray tank half full with clean water. Start agitation system.
3. Add the required amount of FBN Clethodim Adjuvant or Advantage Clethodim Adjuvant to the tank. Continue to agitate until thoroughly mixed.
4. STOP agitation. Add the correct amount of Glufosinate PLUS to the spray tank. Start agitation system.
5. Add the correct amount of FBN Clethodim 240 or Advantage Clethodim 240 along with the remaining amount of water necessary to fill the spray tank.
6. Continue to agitate or run the by-pass system and spray out immediately.
7. After any break in the spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to re-mix the spray materials. Do not allow the mixture to sit overnight. In the case of tank mixtures with broadleaf herbicides, settling will occur if agitation is not continuous.
8. If an oil film starts to build up in the tank, drain it and clean tank with strong detergent solution.
9. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

Glufosinate PLUS may also be tank mixed with other compatible pesticide products that contain clethodim and are approved for use on glufosinate ammonium tolerant canola varieties for control of certain broadleaf and grass weeds. It is important to check the physical compatibility of tank mixed pesticide products in a small volume prior to filling the sprayer.

CLEANING INSTRUCTIONS

Before and after using Glufosinate PLUS, always complete a thorough cleaning of the spray tank, lines, and filter. Spray equipment should be thoroughly rinsed using a strong detergent solution.

APPLICATION INSTRUCTIONS AND PRECAUTIONS

GROUND APPLICATION

Apply using ground equipment only. **DO NOT APPLY BY AIR.**

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

Apply Glufosinate PLUS in a minimum of 110 litres of water per hectare at a pressure of 275 kPa and at a ground speed of 6 to 8 km/h. If check valves are used, apply at 310 kPa. The use of 80° or 110° flat fan nozzles is highly recommended for optimum spray coverage and canopy penetration.

- **DO NOT** use flood jet nozzles, controlled droplet application equipment or air-assisted spray equipment.
- Uniform, thorough coverage of foliage is important to achieve consistent weed control.

Application of the spray at a 45° angle forward will result in better spray coverage. Follow directions elsewhere on the label for the correct rate and timing of application.

For best results, apply to emerged, young, actively growing weeds. Weeds that emerge after application will not be controlled. Glufosinate PLUS will have an effect on weeds that are larger than the recommended leaf stage; however speed of activity and control may be reduced. Weed control may be reduced when heavy dew, fog or mist is present at the time of application.

Leave a 15 metre buffer between the edge of the treated field and adjacent crops or environmentally sensitive areas (for instance: wetlands, sloughs, rivers or other open bodies of water, shelterbelts or wildlife habitat).

DO NOT apply when winds exceed 16 km/h when using open boom sprayers. **DO NOT** apply when winds exceed 25 km/h when using hooded sprayers.

SPRAY BUFFER ZONES

For the protection of non-target habitats overspray or drift to sensitive habitats should be avoided. For ground application, leave a 15 metres buffer between the edge of the treated field and adjacent crops not tolerant to Glufosinate PLUS, or environmentally sensitive areas (for instance: wetlands, sloughs, ponds, rivers or other open bodies of water, shelterbelts or wildlife habitat).

A spray buffer zone is **NOT** required for uses with hand-held application equipment permitted on this label.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands). **DO NOT** contaminate these habitats when cleaning and rinsing spray equipment or containers.

Method of Application	Crop	Spray Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	
Field Sprayer	Canola - <i>Brassica napus</i> (LibertyLink),	1	0	1

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When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

DIRECTIONS FOR USE

POST EMERGENT USE

CANOLA

- Glufosinate PLUS provides control of cleavers up to the three whorls stage in canola varieties and hybrids that are specially developed to be tolerant to glufosinate ammonium.
- Glufosinate PLUS is registered for ground application to glufosinate ammonium tolerant canola varieties or hybrids [varieties or hybrids labelled with LibertyLink].
- Glufosinate PLUS may also be applied to glufosinate ammonium tolerant canola lines or varieties grown for seed production.
- **To assure crop safety and optimal herbicide performance, only use Glufosinate PLUS on glufosinate ammonium tolerant (i.e., LibertyLink) canola grown from certified seed.**
- Glufosinate PLUS is not registered for use on other glufosinate ammonium tolerant crops.
- **Application of Glufosinate PLUS to non-tolerant canola varieties or hybrids or other non-tolerant crops will result in severe crop injury or death of the crop.**
- Apply Glufosinate PLUS from the cotyledon stage up until, but prior to, the early bolting stage of canola.
- Early treatment of weeds with Glufosinate PLUS is important to maximize crop yield potential through elimination of early weed competition.
- Slight discoloration of the canola may be visible after application. This effect is temporary and will not influence crop growth, maturity or yield.
- DO NOT apply Glufosinate PLUS to any field more often than every second year. This practice must be respected in order to avoid potential injury to future rotational crops, to minimize the potential for carryover and accumulation of soil residues, and to reduce the selection pressure which could contribute to the development of resistant biotypes.
- DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

SUSCEPTIBLE WEEDS: Glufosinate PLUS has an effect on all weeds and crops except for those crops which are developed to be tolerant to applications of Glufosinate PLUS. The following weeds are susceptible to application of Glufosinate PLUS. Best control will be obtained when Glufosinate PLUS is applied in the recommended leaf stages.

WEED	RECOMMENDED WEED LEAF STAGE								RATE
	1	2	3	4	5	6	7	8	
Cow Cockle	-----								1.33 L/ha
Green Foxtail	----- Maximum 3 tillers								

WEED	RECOMMENDED WEED LEAF STAGE								RATE
	1	2	3	4	5	6	7	8	
Barnyard Grass	-----								2 L/ha
Lady's-thumb	-----								

Lamb's-quarters	-----	
Russian Thistle	Up to 8 cm height	
Smartweed	-----	
Stinkweed	-----	
Volunteer Flax	Up to 6 cm height	
Wild Mustard	-----	

WEED	RECOMMENDED WEED LEAF STAGE								RATE
	1	2	3	4	5	6	7	8	
Canada Thistle ¹	Up to 10 cm height								2.67 L/ha
Common Chickweed	----- Leaf Pairs								
Hemp-nettle	----- Leaf Pairs								
Kochia	Up to 8 cm height								
Perennial Sow Thistle	-----								
Quackgrass ¹	-----								
Redroot Pigweed	-----								
Round-leaved Mallow	-----								
Scentless Chamomile	Up to 10 cm height								
Shepherd's-purse	-----								
Volunteer Barley ²	----- Maximum 2 tillers								
Volunteer Wheat	----- Maximum 2 tillers								
Wild Buckwheat	-----								

WEED	RECOMMENDED WEED LEAF STAGE								RATE
	1	2	3	4	5	6	7	8	
Cleavers	----- Whorls								3.33 L/ha
Dandelion	1-15 cm rosette								
Flixweed	Up to 10 cm height								
Hemp-nettle	----- Leaf Pairs								
Quackgrass ³	-----								
Stork's-bill	-----								
Wild Oats	----- Maximum 2 tillers								

WEED	RECOMMENDED WEED LEAF STAGE								RATE
	1	2	3	4	5	6	7	8	
Heavy Populations									3.33 L/ha
Canada Thistle ¹	Up to 10 cm height								
Quackgrass ¹	-----								
Volunteer Barley ²	----- Maximum 2 tillers								
Volunteer Wheat	----- Maximum 2 tillers								
Wild Buckwheat	-----								

WEED	RECOMMENDED WEED LEAF STAGE								RATE
	1	2	3	4	5	6	7	8	
Canada Thistle ⁴	Up to 10 cm height								4 L/ha
Quackgrass ⁵	-----								

¹Top Growth Suppression Only
²Suppression Only
³Improved Top Growth Control
⁴Better Top Growth Suppression
⁵Season Long Control for Heavy Populations

TANK MIXES

- Consult the label of the tank mix partner for further directions for use, restrictions and precautions. Tank mix partners may have additional restrictions for leaf staging.
- For enhanced activity, Glufosinate PLUS may be tank mixed with the following products.

CANOLA

TANK MIX PRODUCT	RATE	DIRECTIONS
FBN Clethodim 240 or Advantage Clethodim 240	63 mL/ha	<p>Prairie Provinces and the Interior of British Columbia (including the Peace River Region) only:</p> <p>For control of wild oats, green foxtail, volunteer barley, volunteer wheat, volunteer oats plus all remaining grass and broadleaf weeds listed on the Glufosinate PLUS label, apply Glufosinate PLUS at a rate of 3.33 L/ha plus FBN Clethodim 240 or Advantage Clethodim 240 at 63 mL/ha with FBN Clethodim Adjuvant or Advantage Clethodim Adjuvant, respectively, at 0.5% v/v. Apply when the wild oats, volunteer wheat, volunteer oats and green foxtail are in the 1-5 leaf stage. Refer to the Glufosinate PLUS label for application timing on all remaining grass and broadleaf weeds for 3.33 L/ha.</p>

Note: Do not tank mix Glufosinate PLUS with herbicides, fertilizers or chemical additives unless recommended on this label or the label of each tank mix partner.

- Glufosinate PLUS may also be tank mixed with other compatible pesticide products that contain clethodim and are approved for use on glufosinate ammonium tolerant canola varieties for control of certain broadleaf and grass weeds. It is important to check the physical compatibility of tank mixed pesticide products in a small volume prior to filling the sprayer.

LIVESTOCK FEEDING AND PRE-HARVEST INTERVALS

LIVESTOCK FEEDING

Canola:

- Grain and meal from treated crop can be fed to livestock.
- DO NOT graze, cut for hay, or feed other portions of the treated canola to livestock.

Corn (used as separator rows in Hybrid Canola Seed Production):

- Do not feed treated crop to livestock; sufficient data are not available to support such use.

PRE-HARVEST INTERVALS

Canola:

- When Glufosinate PLUS is applied alone or tank mixed with FBN Clethodim 240 or Advantage Clethodim 240, observe a PHI of 60 days from the date of treatment.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, Glufosinate PLUS is a Group 4 and Group 10 herbicide. Any weed population may contain or develop plants naturally resistant to Glufosinate PLUS and other Group 4 and Group 10 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of Glufosinate PLUS or other Group 4 and Group 10 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partners.
- Herbicide use should be based on an integrated weed management program that includes

scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.

- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Farmer's Business Network Canada, Inc. at 1-844-200-FARM (3276).

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FOR MORE INFORMATION CONTACT:

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