Transition to Gramoxone SL 3.0

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Some perspective

- For over 50 years, when used in accordance with existing label directions, Syngenta paraquat products have been used safely
- EPA classified paraquat as a Restricted Use Pesticide in 1978, requiring certification and associated training for use
- Decanting of the product to another storage container is prohibited
  - Paraquat is highly toxic when ingested
- There is no unacceptable inhalation risk to operators or bystanders when applied according to the label
- When used according to the label, there have been no substantiated cases of paraquat deaths resulting from skin or eye exposure under normal occupational use

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EPA Human Health Mitigation Decision

- In December of 2016, EPA announced the Paraquat Dichloride Human Health Mitigation Decision
- EPA determined the following risk mitigation measures necessary for paraquat-containing products to meet the standard for registration
  - Label changes emphasizing paraquat toxicity and supplemental warning materials
  - Targeted training materials for paraquat users
  - Closed-system packaging for all non-bulk (less than 120 gallon) end use product containers of paraquat
  - Restricted use of all paraquat products to certified applicators only (i.e., prohibiting use by uncertified persons working under the supervision of a certified applicator)

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Paraquat mitigation timeline

EPA Requirement	Details	Effective Date
Supplemental warning materials	• Warning sticker affixed to cap • Product Package Safety Requirements insertion sticker on container • Product warning “counter card”	11/14/2019 All products entering channel will have new amended label and supplemental warning materials*
Certified applicators only	Applicator must be a licensed certified applicator and can no longer work under supervision of a certified applicator**	
Stewardship and safety training	• EPA-approved paraquat internet training program • Product label to include training program website • Training must be completed every 3 years	
Closed system	• All paraquat in containers less than 120 gallons must comply with EPA approved closed system standards • No changes to current systems are needed for paraquat products in containers greater than 120 gallons	Fall 2020

*Entities other than registrants may continue to sell and/or use existing stocks of products with previously approved labeling and packaging until stocks are exhausted

**When applying product with new amended label

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Transitioning from Gramoxone SL 2.0 to Gramoxone SL 3.0

- Gramoxone SL 3.0 will have an amended label requiring:
  - Certified applicator certificate required to mix, load, apply and for cleaning operations with Gramoxone SL 3.0. Non-certified applicators cannot perform these operations even under the supervision of a certified applicator
  - EPA-required paraquat specific training is also required to mix, load, apply and for cleaning operations with Gramoxone SL 3.0
- Certified applicator license is NOT required to fill mini-bulks
  - EPA-paraquat specific training is recommended for anyone moving package, mini-bulks, filling mini-bulks, etc.
- Available in 2x2.5 gallons, 275s and bulk
  - 4x1s and 30s discontinued
- No cleanout required for transition from 2.0 to 3.0 formulation
  - Tank must be empty

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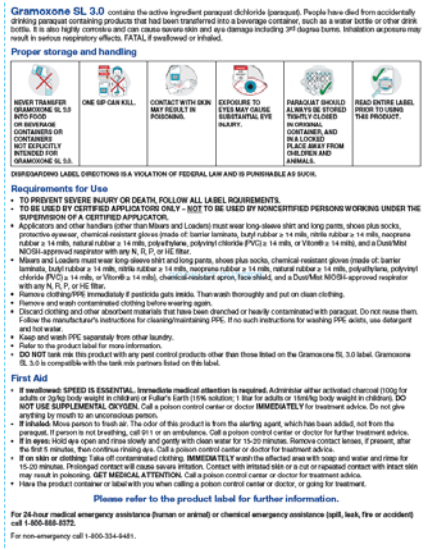
Changes to meet EPA standards, enhanced safety statements

"Counter Card" – 2 cards inside each 2x2.5 case, tri-folded



Gramoxone SL 3.0 contains the active ingredient paraquat dichloride (paraquat). People have died from accidentally drinking paraquat containing products that had been transferred into a beverage container, such as a water bottle or other drink bottle. It is also highly corrosive and can cause severe skin and eye damage including 3rd degree burns. Inhalation or exposure may result in serious respiratory effects. FATAL if swallowed or inhaled.

Proper storage and handling

NEVER TRANSFER GRAMOXONE SL 3.0 INTO FOOD OR BEVERAGE CONTAINERS OR CONTAINERS NOT EXPLICITLY INTENDED FOR GRAMOXONE SL 3.0.	ONE SIP CAN KILL.	CONTACT WITH SKIN MAY RESULT IN POISONING.	EXPOSURE TO EYES MAY CAUSE SUBSTANTIAL EYE INJURY.	PARAQUAT SHOULD ALWAYS BE STORED TIGHTLY CLOSED IN ORIGINAL CONTAINER, AND IN A LOCKED PLACE AWAY FROM CHILDREN AND ANIMALS.	READ ENTIRE LABEL PRIOR TO USING THIS PRODUCT.

DISREGARDING LABEL DIRECTIONS IS A VIOLATION OF FEDERAL LAW AND IS PUNISHABLE AS SUCH.

Requirements for Use

- **TO PREVENT SEVERE INJURY OR DEATH, FOLLOW ALL LABEL REQUIREMENTS.**
- **TO BE USED BY CERTIFIED APPLICATORS ONLY – NOT TO BE USED BY NONCERTIFIED PERSONS WORKING UNDER THE SUPERVISION OF A CERTIFIED APPLICATOR.**
- Applicators and other handlers (other than Mixers and Loaders) must wear long-sleeve shirt and long pants, shoes plus socks, protective eyewear, chemical-resistant gloves (made of: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils, or Viton® ≥ 14 mils), and a Dust/Mist NIOSH-approved respirator with any N, R, P, or HE filter.
- Mixers and Loaders must wear long-sleeve shirt and long pants, shoes plus socks, chemical-resistant gloves (made of: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils, or Viton® ≥ 14 mils), chemical-resistant apron, face shield, and a Dust/Mist NIOSH-approved respirator with any N, R, P, or HE filter.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove and wash contaminated clothing before wearing again.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with paraquat. Do not reuse them. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washing PPE exists, use detergent and hot water.
- Keep and wash PPE separately from other laundry.
- Refer to the product label for more information.
- **DO NOT** tank mix this product with any pest control products other than those listed on the Gramoxone SL 3.0 label. Gramoxone SL 3.0 is compatible with the tank mix partners listed on the label.

First Aid

- **If swallowed: SPEED IS ESSENTIAL. Immediate medical attention is required.** Administer either activated charcoal (100g for adults or 2g/kg body weight in children) or Fuller's Earth (15% solution; 1 liter for adults or 15ml/kg body weight in children). **DO NOT USE SUPPLEMENTAL OXYGEN.** Call a poison control center or doctor **IMMEDIATELY** for treatment advice. Do not give anything by mouth to an unconscious person.
- **If inhaled:** Move person to fresh air. The odor of this product is from the starting agent, which has been added, not from the paraquat. If person is not breathing, call 911 or an ambulance. Call a poison control center or doctor for further treatment advice.
- **If in eyes:** Hold eye open and rinse slowly and gently with clean water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- **If on skin or clothing:** Take off contaminated clothing. **IMMEDIATELY** wash the effected area with soap and water and rinse for 15-20 minutes. Prolonged contact will cause severe irritation. Contact with irritated skin or a cut or repeated contact with intact skin may result in poisoning. **GET MEDICAL ATTENTION.** Call a poison control center or doctor for treatment advice.
- Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Please refer to the product label for further information.

For 24-hour medical emergency assistance (human or animal) or chemical emergency assistance (spill, leak, fire or accident) call 1-800-888-8372.

For non-emergency call 1-800-334-9481.

Back label with Product Package Safety Requirements (PPSR) sticker on bottle

Product Package Safety Requirements

NEVER TRANSFER THIS PRODUCT INTO FOOD OR BEVERAGE CONTAINERS OR CONTAINERS NOT EXPLICITLY INTENDED FOR PESTICIDES.	NUNCA TRANSFIERA ESTE PRODUCTO A RECIPIENTES PARA COMIDA O DE BEBIDAS O RECIPIENTES NO EXPLÍCITAMENTE PREVISTOS PARA PLAGUICIDAS	
ONE SIP CAN KILL.	UN SORBO PUEDE CAUSAR LA MUERTE.	
CONTACT WITH SKIN MAY RESULT IN POISONING.	EL CONTACTO CON LA PIEL PUEDE CAUSAR ENVENENAMIENTO.	
EXPOSURE TO EYES MAY CAUSE SUBSTANTIAL EYE INJURY.	EXPOSICIÓN A LOS OJOS PUEDE CAUSAR LESIONES SUSTANCIALES EN LOS OJOS.	
PARAQUAT SHOULD ALWAYS BE STORED TIGHTLY CLOSED IN ORIGINAL CONTAINER, AND IN A LOCKED PLACE AWAY FROM CHILDREN AND ANIMALS.	EL PARAQUAT DEBE ALMACENARSE SIEMPRE CERRADO EN SU RECIPIENTE ORIGINAL, Y EN UN LUGAR CERRADO, ALEJADO DE NIÑOS Y ANIMALES.	
READ ENTIRE LABEL PRIOR TO USING THIS PRODUCT.	LEA LA ETIQUETA COMPLETA ANTES DE USAR ESTE PRODUCTO.	

Required cap label

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Gramoxone® SL 3.0

syngenta®

Closed-system packaging

- Syngenta will offer Gramoxone SL 3.0 only in closed-system packaging for containers less than 120 gallons to provide enhanced stewardship

- Closed-system and handling requirements prevent jar testing for compatibility
  - No significant changes in compatibility
  - To provide guidance to applicators, Syngenta has conducted compatibility testing, and will continue to expand the list of products evaluated
  - Compatibility information to be provided on Syngenta website as an extension of the label
  - Consult the website for specific information regarding tank-mix compatible products and mixing instructions

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Closed-system equipment summary: SecuraLink™

- Closed-system cap installed on each 2.5 gallon container
  - Cannot be removed or opened by hand
  - Dispensing rate is approximately 15-20 seconds to empty
  - Dispensing rate is controllable
  - Container is graduated to aid in mixing
  - Container can be rinsed immediately after dispensing through the closed system

- Dispensing from container requires an adaptor mounted to an eductor tank or spray tank

- Adaptors will be made available through AgBiz

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Closed-system components*

*This same design was successfully used with Curacron® insecticide. New fitting has been modified to improve flow rate.

Tank adaptor
- Mounted to mix bowl, spray tank lid, etc.
- Threaded connection to water source for container rinsing (backflow prevented)

2x2.5 container cap
- Insert cap into adapter, ¼ turn is full flow
- Flow controlled by turning < ¼ turn

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Closed-system components

2.5 Gallon Containers

Water supply line for rinsing requirements

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Gramoxone SL 3.0 summary

- Provides the same lightning fast, reliable burndown you expect from a Gramoxone brand
- Labeled on same crops with the same use patterns as Gramoxone SL 2.0
- Higher loading strength for improved handling and storage
- New, simple, easy-to-use closed system for 2x2.5 gallon containers to provide enhanced stewardship
- Backed by the expertise of Syngenta field sales and agronomists and the company with more than 50 years of experience with paraquat

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https://campus.extension.org/

All paraquat users must undergo specialized EPA-approved training **every 3 years**.

Scan this QR code to access EPA-approved paraquat training.

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Performance assessments are based upon results or analysis of public information, field observations and/or internal Syngenta evaluations.

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