



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

March 10, 2020

Ann Tillman  
Agent of U.S. Raymat AG LLC  
c/o Pyxis Regulatory Consulting Inc  
4110 136th Street Ct NW  
Gig Harbor, WA 98332

Subject: Label Amendment – Updates throughout label  
Product Name: Paraquat Manufacturing Concentrate  
EPA Registration Number: 90330-2  
Application Date: March 6, 2020  
Decision Number: 560470

Dear Ms. Tillman:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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with FIFRA section 6. If you have any questions, please contact Lydia Crawford by phone at 703-347-0622, or via email at [Crawford.Lydia@epa.gov](mailto:Crawford.Lydia@epa.gov).

Sincerely,



Emily Schmid, Product Manager 25  
Herbicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

# PARAQUAT MANUFACTURING CONCENTRATE

FOR FORMULATION OF PARAQUAT HERBICIDE PRODUCTS ONLY

**ACTIVE INGREDIENT:**

Paraquat dichloride (1,1'-dimethyl, 4,4'-bipyridinium dichloride) ..... 43.80%

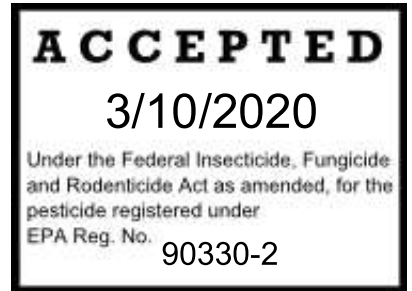
**OTHER INGREDIENTS:** .....56.20%

**TOTAL** ..... 100.00%

- Contains 3.0 pounds paraquat cation per gallon as 4.14 pounds salt per gallon.
- Contains dye, emetic and stenching agent.

**KEEP OUT OF REACH OF CHILDREN  
DANGER/PELIGRO**

**POISON/VENENO**



Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

- **NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS**
- **IF SWALLOWED, TAKE IMMEDIATE ACTION AS PRESCRIBED IN FIRST AID STATEMENT. SYMPTOMS ARE PROLONGED AND PAINFUL.**

EPA Reg No. 90330-2

EPA Est. No. xxxxx-xxx

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MANUFACTURED FOR:  
U.S. Raymat Ag LLC  
440 Boulder Court, Suite 300  
Pleasanton, CA 94566

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• <b>SPEED IS ESSENTIAL. Immediate attention is required.</b> If available, give an adsorbent such as activated charcoal, bentonite or Fuller's Earth.</li> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance.</li> <li>• Call poison control center or doctor for further treatment advice.</li> <li>• The odor of this product is from the stenching agent, which has been added, not from the paraquat.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call poison control center or doctor for treatment advice.</li> </ul>
<b>NOTE TO PHYSICIAN</b>	
Administer either activated charcoal (100 g for adults or 2 g/kg body weight in children) or Fuller's Earth (15% solution: 1 liter for adults or 15 mg/kg body weight in children). <b>NOTE:</b> The use of gastric lavage without administration of an adsorbent has not shown any clinical benefit. Do not use supplemental oxygen. Eye splashes from concentrated material should be treated by an eye specialist after initial treatment. With the possibility of late onset corneal ulceration, it is advised that patients with paraquat eye injuries are reviewed by an eye specialist the day after first presentation. Use treatment that is appropriate for chemical burns. Intact skin is an effective barrier to paraquat, however contact with irritated or cut skin or repeated contact with intact skin may result in poisoning.	
<b>MEDICAL HOTLINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical treatment call toll free 1-877-424-7452.	

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**DANGER/PELIGRO**  
**POISON/VENENO**

May be fatal if swallowed. Fatal if inhaled. Causes substantial but temporary eye injury. Harmful if absorbed through skin. Do not breathe spray mist or vapor. Do not inhale contaminated plant dust. Do not get in eyes or on clothing. Avoid contact with skin.

**IMPORTANT:** The effect of swallowing paraquat concentrate is far more severe than that which usually results from skin contact or inhalation of contaminated plant dust. User must use product in accordance with label instructions.

When handling or mixing concentrate or when exposure to concentrate is possible, wear:

- A NIOSH approved particulate respirator with an N, R, or P filter with NIOSH approval number prefix TC-84A, or a NIOSH approved powered air-purifying respirator with an HE filter with NIOSH approval number prefix TC-21C
- Protective clothing (disposable suit/coveralls or long-sleeve shirt and long pants)
- Protective eyewear
- Chemical-resistant gloves made of barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, natural rubber  $\geq 14$  mils, polyethylene, polyvinyl chloride (PVC)  $\geq 14$  mils, or Viton®  $\geq 14$  mils
- Shoes plus socks
- Full face shield

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash separately from other laundry before reuse.

### **ENVIRONMENTAL HAZARDS**

This product is toxic to wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless this product is specifically identified and addressed in a National Pollution Discharge Elimination System (NPDES) permit. Do not discharge effluent containing this product into sewer systems without first notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### **PHYSICAL AND CHEMICAL HAZARD**

This product reacts with aluminum to produce hydrogen gas which may form a highly combustible gas mixture. Do not mix or store in containers, tanks, or such systems made of aluminum or having aluminum fittings. Do not mix or allow product to come into contact with oxidizing agents. Hazardous chemical reaction may occur.

### **EQUIPMENT/CONTAINER**

Flush all equipment with water after use each day. **PARAQUAT IS CORROSIVE TO ALUMINUM.** Flush aluminum equipment and aluminum structures that are exposed to solution of spillage thoroughly with water immediately after use.

### **SPILLAGE DURING TRANSPORT**

**Emergency Action:** Notify police and fire departments immediately. For any spill, leak, fire, or exposure in the United States, call CHEMTREC (800) 424-9300.

KEEP PUBLIC AND ANIMALS away from area. MARK ROADS AND WARN OTHER USERS. Wear face shield, waterproof gloves, waterproof footwear, and long-sleeve shirt and long pants during decontamination operations.

Clean up spills as soon as possible. Cover spill with generous amount of clay or loam soil to absorb liquid, using a stiff broom to ensure intimate contact. Sweep onto shovel and transfer to plastic bag or other disposable container. Repeat operations until contaminated surfaces are dry. Finally, hose spill site with water, if feasible.

## **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

Only for formulation into an herbicide for the following use(s):

### **TERRESTRIAL FOOD**

Acerola (West Indies cherry); Animal Feed Nongrass, Group 18, forage and hay; artichoke (Chinese, Jerusalem, globe); asparagus; atemoya; avocado; banana (plantain); barley; beet, sugar; Berry Group 13; biriba; cacao; canistel; carrot (including tops); cherimoya; coffee; corn (field, pop, sweet, and seed); cotton; cowpea forage and hay; cranberry; custard apple; endive (escarole); feijoa; fig; fruit, citrus, Group 10; fruit, pome, Group 11; fruit, stone, Group 12; grapes (including dormant applications); grass, forage and hay, Crop Group 17; guar, seed; guava; hops; ilama; jaboticaba; kiwifruit; lettuce; longan; lychee; manioc (cassava); mango; nut, tree, Group 14; okra; olive; onion (green, bulb); papaya; passion fruit; pawpaw; pea and bean dried shelled except soybean, Subgroup 6C, except guar; pea and bean succulent shelled, Crop Subgroup 6B; pea, field, hay and vines; peanuts; peppermint; persimmon; pineapple; pistachio; pomegranate; pulasan; rambutan; rhubarb; rice; safflower; sapodilla; sapote (black, mamey, white); sorghum; soursop; soybeans; Spanish lime; spearmint; star apple; starfruit; strawberry; sugar apple; sugarcane; sunflower; turnip (greens, roots); tyfon; vegetable, brassica, leafy, Group 5; vegetable, cucurbit, Group 9; vegetable, fruiting, Group 8; vegetable, legume, edible podded, subgroup 6A; vegetable, tuberous and corm, Crop Subgroup 1C; wax jambu; wheat

## TERRESTRIAL NON-FOOD

Agricultural fallow/idleland, airports/landing fields, chemical fallow, commercial/industrial lawns, conservation compliance lands, conservation reserve lands, commercial/institutional/industrial premises/equipment (outdoor), Easter lilies, federal set-aside lands, fencerows/hedgerows, grasses grown for seed, industrial areas (outdoor), jojoba, nonagricultural outdoor buildings/structures, nonagricultural uncultivated areas/soils, non-crop areas (including public airports/electric transformer stations, pipeline pumping stations, around commercial buildings, storage yards and other installations, and fencelines), pasture reseeded, ornamental and/or shade trees (including arborvitae, ash, elm, fir, oak, pine), ornamental herbaceous plants, ornamental woody shrubs and vines, peach (non-bearing, seed beds), recreation area lawns, resin soaking (pines), tomato (post-harvest), tree plantation establishment (deciduous and conifers), windbreaks, wood protection treatment to forest products (seasoned).

## FORESTRY

Forest planting (reforestation programs), pine (forest/shelterbelt), shelterbelt plantings.

## OTHERS

Uses for which the U.S. EPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration and uses for experimental purposes that are in compliance with U.S. EPA regulations.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment.

**PESTICIDE STORAGE:** Store at temperatures above 32°F. Do not contaminate food, foodstuffs or drinking water. Do not store next to feed or food, or transport in or on vehicles containing foodstuffs or feeds.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. **For liquid formulations in nonrefillable container:** Triple rinse as follows: Empty the remaining contents into formulation equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into formulation equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **DO NOT REUSE CONTAINERS FOR ANY PURPOSE.**

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call  
CHEMTREC 1-800-424-9300**

### CONDITIONS OF SALE AND LIMITATION OF WARRANTY

US Raymat Ag LLC warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of US Raymat Ag LLC. To the extent consistent with applicable law, US Raymat Ag LLC shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product. To the extent consistent with applicable law, the exclusive remedy of any buyer or user of this product and any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort negligence, strict liability, or otherwise, shall not exceed the purchase price of this product. All such risks shall be assumed by the buyer. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, US RAYMAT AG LLC MAKES NO WARRANTIES OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.