

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NOV 4 1991

Nik Ramswick
Red Panther Chemical Company
P.O. Box 550
Clarksdale, Mississippi 38614

Dear Ms. Ramswick:

Subject: Revised Label Text and Confidential Statement of Formula
Red Panther 2,4-D Lovol Ester
EPA Registration No. 42761-17
Your Submission Dated August 7, 1991

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provision:

Due to new EPA policy, part of the Environmental Hazards section has been changed. To comply, change the sentence "Do not apply to water or wetlands (swamps, bogs, marshes and potholes)" to read "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."

A stamped copy is enclosed for your records. Please submit five (5) final printed copies for the referenced label, incorporating the above change.

The Confidential Statement of Formula dated August 7, 1991 is acceptable and has been added to your file as part of the record. Please note that, in order to update your file, MRID numbers for product specific data, if previously submitted, should be referenced to the Agency. If none has been submitted, this data must be submitted as per 40 CFR 158.190.

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

CONCURRENCES

SYMBOL	H7505C							
SURNAME	D. KENNY							
DATE	11/4/91							

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RED PANTHER 2,4-D LCVGL ESTER

ACCEPTED
with COMMENTS
in EPA Letter Dated:

NOV 4 1991

Use only as directed.
Poisonous
as amended
registered under EPA Reg. No.

42761-17

KEEP OUT OF REACH OF CHILDREN
CAUTION
See Side Panel For Additional Precautionary Statements

ACTIVE INGREDIENT:		
2,4-Dichlorophenoxyacetic acid, Isooctyl Ester*		63.16%
INERT INGREDIENTS**		36.84%
Total		100.00%

*Isomer Specific Acid Equivalent (41.92% or 3.77 Lbs./Gal.) by AOAC Method No. 6.D01-5. **This product contains Aromatic Petroleum Solvent.

Net Contents: 2½ Gallons

EPA Reg. No. 42761-17
EPA Est. No. 42761-17S-1

Manufactured By:
Red Panther Chemical Company, Clarksdale, Mississippi 38614

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PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if swallowed. May cause irritation. Avoid contact with skin, eyes, or clothing. When handling this product, wear chemical resistant gloves. Wash thoroughly after handling. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. If swallowed, induce vomiting immediately by giving two glasses of water, and sticking finger down throat. Call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters. Do not contaminate irrigation ditches or water used for irrigation or domestic purposes.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

DIRECTIONS FOR USE

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

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Read the above reentry statement and the precautionary statements to workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information. "CAUTION: Area treated with 2,4-D LOVOL ESTER (contains 2,4-D) on (date of application). Do not enter without appropriate protective clothing until sprays have dried. (Insert here Statement of Practical Treatment from label.)"

RED PANTHER 2,4-D LOVOL ESTER CONTROLS THE FOLLOWING WEEDS:

- | | | |
|----------------|-----------------|-------------------|
| Buckhorn | Knotweed | Ragweed |
| Carpetweed | Lambsquarter | Shepherdspurse |
| Cocklebur | Marshelder | Sunflower |
| Dandelion | Mustards | Tie Vine |
| Dock | Morningglory | Wild Carrot |
| Hedge Bindweed | Pigweed | Wild Radish |
| Henbit | Plantain | Wild Sweet Potato |
| Kochia | Prickly Lettuce | |

This product is recommended for controlling weeds that are difficult to kill such as certain perennials and woody brush plants growing in resistant crops, rights-of-way, fence rows, and pastures. It is designed for application after dilution with water. It is considerably less volatile than either the isopropyl or butyl esters, but care must be exercised in its use as outlined in the precautionary statements. Apply RED PANTHER 2,4-D LOVOL ESTER when weeds are small, succulent, and growing rapidly. Lack of moisture may cause less effective control. If possible, treat perennial weeds just before the bloom stage. Use enough water per acre to give uniform coverage. The amount of water may vary from 5 to 10 gallons per acre for low volume sprayers up to 200 to 300 gallons per acre, if required by the sprayer, for good coverage. In either case, use the same amount of RED PANTHER 2,4-D LOVOL ESTER per acre. Add RED PANTHER 2,4-D LOVOL ESTER to water in the spray tank while filling, and mix thoroughly. The rates of application shown here are for normal control under average conditions. State Agricultural Experiment Stations should be consulted for specific recommendations regarding application, dosages, and timing of sprays. Use of this product may be governed in certain areas by local regulations.

Extreme care must be used when applying 2,4-D to prevent injuring desirable plants and crops. 2,4-D should not be used on susceptible crops such as cotton, tomatoes, vegetables, grapes, fruit trees, soybeans, tobacco, or beans. Do not allow spray mist to drift to such plants since minute quantities of spray may cause severe injury. Vapors from this product may cause injury to susceptible plants in the immediate vicinity. Use low pressures when spraying to produce coarse sprays which are less likely to drift. Thoroughly clean spray equipment with a suitable chemical cleaner before using for other purposes. It is safest to use a separate sprayer for application of 2,4-D herbicides. If the same sprayer must be used for other crop spraying, it should be flushed thoroughly with water immediately after use. Next, fill equipment with water containing one volume of household ammonia to 100 volumes of water, and allow to stand for one day. Then flush equipment thoroughly, including hoses and nozzles, several times with water. Large amounts of 2,4-D in soil may temporarily inhibit seed germination. Never use more 2,4-D than recommended. DO NOT USE IN GREENHOUSES.

SMALL GRAINS (WHEAT, BARLEY, RYE): Use 1/2 pint per acre in small grains for controlling annual weeds such as ragweed, mustard, lambsquarter, pigweed, and wild radish. Apply 3/4 pint per acre to control perennial weeds such as bindweed, knotweed, Canada thistle, and wild morning glory. Treat winter wheat only in spring when weeds are small and before the crop begins heading. Grain interplanted with legumes should not be sprayed. Treat grain after tillering has begun and before it emerges from boot or before jointing. Application at other times may cause abnormal heading. NOTICE: DO NOT FORAGE OR GRAZE TREATED GRAIN FIELDS WITHIN 2 WEEKS AFTER TREATMENT WITH 2,4-D. DO NOT FEED TREATED STRAW TO LIVESTOCK.

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CORN: For controlling susceptible annual or perennial weeds, apply not more than 1/2 pint per acre. If crop is 8 inches or taller, avoid application of 2,4-D to the growing point. Use drop nozzles and direct spray near base of the crop. Do not use after tassels appear. Different varieties may vary in susceptibility to 2,4-D. Do not use 2,4-D on corn grown for the production of hybrid seed. Check with State Agricultural Experiment Stations for specific recommendations. Avoid cultivating soon after treatment, when corn may be brittle. For preemergence treatment of weeds in corn, use 1½ to 3 pints per acre, applied as a broadcast spray one to three days before crop emergence. Do not use preemergence sprays on light, sandy soils.

SORGHUM: Apply 1/2 pint per acre. Apply when sorghum is 4 - 12 inches tall. Severe injury may result if 2,4-D is applied to plants less than 3 inches tall or after 10 inches tall to bloom period. Use drop nozzles when crop is more than 10 inches high. Do not apply from flowering to early dough stage. Check with State Agricultural Experiment Stations for specific recommendations.

PASTURES AND NON-CROP LAND: Annual Weeds - Most annual broadleaf weeds listed can be controlled with 1 to 1½ pints in 5 to 10 gallons of water per acre. Make application when weeds are young and actively growing. New grass seedings should not be treated until they are well established. For controlling annual weeds in feed lots, fence rows, along highways and similar locations use 1 quart in 5 to 10 gallons water per acre. Perennial Weeds - Many of the perennial weeds in pastures including ironweed, vervain and the asters are moderately tolerant to 2,4-D. For control of these type weeds use 1 quart RED PANTHER 2,4-D LOVOL ESTER in 5 to 10 gallons water per acre. Make application not later than the bud stage and repeat treatment the following season. Woody Plants - Most woody plants can be controlled by the proper use of RED PANTHER 2,4-D LOVOL ESTER. Chemical may be applied as a foliage spray or to the cut surfaces of stubbles or stumps, or to the bark near the base in the case of large shrubs or trees. For knapsack equipment use 2 quarts RED PANTHER 2,4-D LOVOL ESTER in 10 gallons of water. Thoroughly cover all surfaces of the plant. For power equipment use 4 to 6 quarts in 10 gallons of water. Species such as buckbrush, sumac, skunkbrush, elderberry, hackberry, wild grape, willows, Virginia creeper and trumpet vine are readily controlled with the above dosages. **NOTE - DO NOT GRAZE DAIRY ANIMALS ON TREATED AREAS WITHIN 7 DAYS AFTER APPLICATION. DO NOT HARVEST GRASS FOR HAY WITHIN 30 DAYS OF APPLICATION. DO NOT GRAZE MEAT ANIMALS ON TREATED AREAS WITHIN 3 DAYS OF SLAUGHTER.**

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. 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 DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

NOTICE

Red Panther Chemical Company warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when

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used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions not reasonably foreseeable to Red Panther Chemical Company, and buyer assumes the risk of any such use. Red Panther Chemical Company shall not be responsible for incidental or coincidental damages, if any, resulting from a breach of warranty.