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US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (75-767)  
WASHINGTON, DC 20460

EPA REGISTRATION NO.

2548-82

DATE OF ISSUANCE

NOV 21 1994

TERM OF ISSUANCE

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION  
(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

Max Kill Carbon Dioxide

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Research Products Company  
P.O. Box 1460  
Salina, KS 67402-1460

5477112 675  
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NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the Reregistration Eligibility Document, EPA has reregistered the product listed above. Enclosed is a copy of your label stamped "Accepted". This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Make the revisions specified below before you print the final labeling for this product.

1. On Page 2 under "General Use Instructions", add a list of specific raw agricultural commodities on which the product may be used.
2. Under "Placarding", change "(b)" as follows:  
  
the signal word, "DANGER/PELIGRO" and the skull and crossbones symbol, must be on the placard,

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

NOV 21 1994

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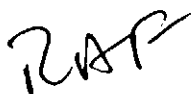
The third source listed on your 10/8/93 Confidential Statement of Formula (CSF) is suspended. You can only purchase additional material from this source after the Agency has lifted this suspension. Your other two sources are acceptable.

Submit one copy of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

**Registrants** may sell or distribute products bearing old labeling for **one year** after the date of this Notice. **Non-registrants** may sell or distribute products bearing old labeling for **three years** after the date of this Notice.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.



Robert A. Forrest  
Product Manager (14)  
Insecticide-Rodenticide Branch  
Registration Division (H7504C)

- Enclosures: 1. Stamped label  
2. A-79 Enclosure

Peacock WP#5:A:2548-82.CO2:305-5407,-6600:11/21/94

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ACCEPTED  
with COMMENTS  
in EPA Letter Dated

NOV 21 1994

MAX KILL(R)

CARBON DIOXIDE

ACTIVE INGREDIENT

CARBON DIOXIDE.....99.95%

INERT INGREDIENTS.....0.05%

Under the Federal Insecticide,  
Fungicide, and Plant Growth Reg-  
ulator Act, this product is  
registered under EPA Reg. No.

2548-82

KEEP OUT OF REACH OF CHILDREN

WARNING

EXPOSURE MAY CAUSE SUFFOCATION AND DEATH

STATEMENT OF PRACTICAL TREATMENT

IF INHALED: Remove to fresh air immediately. Keep victim lying down and warm. If breathing is difficult, give oxygen. Call physician immediately.

WARNING: May be fatal if inhaled. Do not breathe vapor. For handling activities in enclosed areas during and after fumigation, use either a supplied-air respirator with MSHA/NIOSH approval number TC-19C or a self-contained breathing apparatus (SCBA) with MSHA/NIOSH approval number TC-13F.

AERATION: After fumigation, aerate treated areas until the level of CO<sub>2</sub>, as measured by a direct reading detection device suitable for use with carbon dioxide is below 5,000 ppm. Examples of such equipment are the Draeger bellows style pump and its detector tube number CH 23501 (0.1-6 Vol. %). The Matheson-Kitagawa piston style sampling pump and tubes 126SB (0.05-1.0%) or 126SH (1-20%) may also be used. Instructions are enclosed with each purchase.

RE-ENTRY (below 5,000 ppm CO<sub>2</sub>): If CO<sub>2</sub> levels are below 5,000 ppm, persons may re-enter the treated area without respiratory protection.

RE-ENTRY (5,000 ppm - 30,000 ppm CO<sub>2</sub>): If CO<sub>2</sub> levels are between 5,000 and 30,000 ppm, persons may re-enter the treated area without respiratory protection for 15 minutes or less. For periods longer than 15 minutes, persons must wear the respiratory protection device specified above under WARNING.

RE-ENTRY (over 30,000 ppm CO<sub>2</sub>): If CO<sub>2</sub> levels are over 30,000 ppm CO<sub>2</sub>, persons must always wear the respiratory protection device specified above under WARNING.

EPA REG. NO. 2548-82

NET CONTENTS

POUNDS

MANUFACTURED FOR

RESEARCH PRODUCTS COMPANY  
DIV. OF MCSHARES, INC.  
SALINA, KANSAS 67401



DIRECTIONS FOR USE

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

General Use Instructions

All stored raw and processed agricultural commodities may be treated. This product can be used to fumigate all facilities that process, store, transport or otherwise handle the above commodities. These facilities may be fumigated whether or not they contain any commodity. The following are examples of facilities that may be treated: trailers, rail cars, ship holds, barges, granaries, bins, tarped storage, warehouses, elevator facilities, cereal grain processing plants, feed and seed facilities, other food processing and storage facilities, fumigation chambers and other sealable enclosures. It is effective against virtually all species and life stages of stored product insects. Types of insects that may be treated are: moths, weevils, cadelle, cereal leaf beetle, cigarette beetle, flour beetles, dermestid beetles, dried fruit beetle, flat grain beetle, rusty grain beetle, fruit fly, other flies, grain borers, pink bollworm, saw-toothed grain beetle, spider beetles, meal worms, roaches, silverfish, spiders, crickets, and mites.

Training

All persons working with this product should be knowledgeable of the hazards of this chemical and trained in the use of required respirator equipment, detector devices, emergency procedures and use of the product. When used for fumigation of enclosed spaces, two persons familiar with the use of this product must be present during introduction of the fumigant, initiation of aeration and after aeration when testing for reentry. Two persons do not need to be present if monitoring is conducted remotely (outside of area being fumigated).

Placarding

The applicator must placard or post all entrances to the fumigated area with signs conforming to the following requirements:

- (a) The sign shall be at least 14 inches by 16 inches in size, and the letters shall be at least 1 inch in height unless a smaller sign is necessary because the treated area is too small to accommodate a sign of this size. Letters shall be clearly legible.
- (b) the signal word, WARNING/AVISO,
- (c) the statement, "Area under fumigation, DO NOT ENTER/NO ENTREE.",
- (d) the date of fumigation,
- (e) the name of the fumigant (carbon dioxide), and
- (f) name, address and telephone number of the applicator or pesticide handler must be on the placard.



These signs must be posted at eye level and must be visible from all visible points of entry to the treated area. They must remain posted during application and throughout the restricted entry interval until the concentration of carbon dioxide is at or below the 5,000 ppm. Each separate treated area (i.e., boxcar, silo, ship container, etc.) must be posted or placarded with this sign.

The applicator or person responsible for monitoring levels of carbon dioxide may remove the placard when the concentration of carbon dioxide is at or below 5,000 ppm.

Application Directions

Purge fumigation enclosure to 60% carbon dioxide. A minimum of 2 days exposure is recommended for adult insects and a minimum of 4 days is recommended for all other life stages. In many cases, concentrations should be monitored during the fumigation and carbon dioxide added as needed to maintain the 60% concentration. Do not fumigate if insects are exposed to less than 40 degrees F. Fumigation temperatures of over 60 degrees F. are desired.

Trucks and Trailers

Treat as above. Do not move trucks or trailers over public roads during treatment. They must be aerated before movement is allowed.

Shipboard, In Transit Ship or Ship Hold Fumigation

IMPORTANT

Shipboard, in transit ship or ship hold fumigation is also governed by U.S. Coast Guard regulations. Refer to and comply with these regulations prior to fumigation.

Pre-fumigation Procedures

1. Prior to fumigating a vessel for in transit cargo fumigation, the master of the vessel or his representative and the fumigator must determine whether the vessel is suitably designed so as to allow for safe occupancy by the ship's crew throughout the duration of the fumigation. If it is determined that the design and configuration of the vessel does not allow for safe occupancy by the ship's crew throughout the duration of the fumigation, then the vessel will not be fumigated unless all crew members are removed from the vessel. The crew members will not be allowed to re-occupy the vessel until the vessel has been properly aerated and determination has been made by the master of the vessel and the fumigator that the vessel is safe for occupancy.

2. The person responsible for the fumigation must notify the master of the vessel, or his representative, of the requirements relating to personal protection equipment, detection equipment and that a person qualified in the use of this equipment must accompany the vessel with cargo under fumigation. Emergency procedures, cargo ventilation, periodic monitoring and inspections, and first aid measures must be discussed with and understood by the master of the vessel or his representative.

3. During the fumigation or until a manned vessel leaves port or the cargo is aerated, the person in charge of the fumigation shall insure that a qualified person using gas or vapor detection equipment tests spaces adjacent to spaces containing fumigated cargo and all regularly occupied spaces for fumigation leakage. If leakage of the fumigant is detected, the person in charge of the fumigation shall take action to correct the leakage or shall inform the master of the vessel, or his representative, of the leakage so that corrective action can be taken.

4. If the fumigation is not completed and the vessel aerated before the manned vessel leaves port, the person in charge of the vessel shall insure that at least two units of personal protection equipment and one gas or vapor detection device and a person qualified in their operation be on board the vessel during the voyage.

**Precautions and Procedures During Voyage**

Using appropriate gas detection equipment, monitor spaces adjacent to areas containing fumigated cargo and all regularly occupied areas for fumigant leakage. If leakage is detected, the area should be evacuated of all personnel, ventilated, and action taken to correct the leakage, before allowing the area to be occupied. Do not enter fumigated areas except under emergency conditions. If necessary to enter a fumigated area, appropriate personal protection equipment, must be used. Never enter fumigated areas alone. At least one other person, wearing personal protection equipment, should be available to assist in case of an emergency.

**Precautions and Procedures During Discharge**

If necessary to enter, hold prior to discharge, test spaces directly above grain surface for fumigant concentration, using appropriate gas detection and personal safety equipment. Do not allow entry to fumigated areas without personal safety equipment unless fumigant concentrations are at safe levels, as indicated by a suitable detector.

Personal protection equipment means a self-contained breathing apparatus jointly approved by the Mining Safety and Health Administration and the National Institute of Occupation Safety and Health.

**STORAGE AND DISPOSAL**

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

**Storage**

Store in dry, cool, well-ventilated area under lock and key. Post as a pesticide storage area. It may also be stored in an appropriate bulk container.

Store cylinders upright, secured to a rack or wall to prevent tipping. Cylinders should not be subjected to rough handling or mechanical shock such as dropping, bumping, dragging or sliding. Do not use rope slings, hooks, tongs or similar devices to unload cylinders. Transport cylinders using hand truck or fork truck to which the cylinder can be firmly secured.

Do not remove valve protection bonnet and safety cap until immediately before use. Replace safety cap and valve protection bonnet when cylinder is not in use.

**Spill and Leak Procedures**

Evacuate immediate area of leak. Use respiratory device (See Precautionary Statements.) for entry into affected area to correct problem. Move leaking or damaged cylinders outdoors or to an isolated location, observing strict safety precautions. When completely empty, return to manufacturer if instructed or dispose of leaking or damaged cylinders or containers in accordance with state and local waste disposal regulations.

Do not permit entry into spill area by unprotected persons until concentrations of carbon dioxide are determined to be less than the exposure limits specified in this document.

**Pesticide Disposal**

Vent unusable carbon dioxide to the open air.

**Cylinder Disposal**

When cylinder is empty, close valve, screw safety cap onto valve outlet and replace protection bonnet before returning to shipper. Only the registrant is authorized to refill cylinders. Do not use cylinders for any other purpose. Follow registrant's instruction for return of empty or partially empty cylinders. Empty cylinders may be disposed of in sanitary landfill.

**BEST AVAILABLE COPY**