		68146-2		Fuge
US ENVIRONMENTAL PROTECTION OFFICE OF PESTICIDES PROGR		68146-2		ssuance <u>– 1. 1995</u>
REGISTRATION DIVISION /75-7 WASHINGTON, DC 20460		TERM OF ISSUANCE		
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(Under the Federal Insecticide, and Rodenticide Act, as amo		MAKR carbon	D'oxide	
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Integrated Environme 9119 Allondra Boule Bellflower, CA 907	vard	national, Inc.		
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n the basis of information furnished by ne Federal Insecticide, Fungicide, and	l Rodenticide Act.			
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egistration is in no way to be construe	strator, on his motio	on, may at any time suspend	or cancel the regis	stration of a pest-
ide in accordance with the Act. The a ct is not to be construed as giving the	•		or to its use if it	has been covered
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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely,

Ruth G. Douglas Product Manager (32) Antimicrobial Program Branch Registration Division (7505C)

Enclosures

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INTEGRATED ENVIRONMENTS INTERNATIONAL

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JUN _ 1 1995

Under the Federal Insecticide, Fundicide, and Redentiaide Act an amonded, for the pesticide registered under EPA Reg. No.

68146-2

MANUAL FOR THE SAFE HANDLING OF CARBON DIOXIDE

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MANUAL FOR THE SAFE HANDLING OF CARBON DIOXIDE

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List of Integrated Labeled Carbon Dioxide Formulations	3
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Directions for Placarding for Structural, Transportation, Space Furnigation	6
Carbon Dioxide Technical Data	6
Reduced Rate Application Method Using MAKR [™] Fumigation Process	7

ACCEPTED with COMMENTS to EPA Latter Dated

JUN 1 1995 Under the Federal Insecticide, Fungicide, and Rodenticide Art es amended, for the publicide registured under EPA Has. No.

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LIST OF INTEGRATED LABELED CARBON DIOXIDE FORMULATIONS

PRODUCT NAME	E.P.A. Label No.	Active Ingredient Carbon Dioxíde	Use
MAKR [™] Carbon Dioxide	68146-1	9 9.5%	Commodity Space, grain Fumigant

DIRECTIONS FOR SAFE HANDLING AND APPLICATION

Carbon Dioxide is marketed as a liquified gas under pressure in cylinders Carbon Dioxide is a fumigant of wide use because of a high rate of diffusion and penetrating into soil, space, sacks and packaged material where its broad spectrum pesticidal activity is fully expressed.

GENERAL PRECAUTIONS AND LIMITATIONS FOR INTEGRATED ENVIRONMENTS LABELED CARBON DIOXIDE FORMULATIONS;

MAKR[™] CARBON DIOXIDE

HAZARDS TO HUMANS & DOMESTIC ANIMALS DANGER HIGH ACUTE TOXICITY

Hazardous liquid and vapor under pressure. Do not breathe vapor. Fatal if inhaled. Do not get liquid on skin or in eyes. For handling activities in enclosed areas use either a supplied air respirator with MSHA/NIOSH approval number, TC-19C, or a Self Contair.ed Breathing Apparatus (SCBA) with MSHA/NIOSH approval number TC-13F.

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NOTE TO PHYSICIAN

Symptoms of overexposure are headache, dizziness, drowsines shortness of breath, muscular weakness, and ringing in ears. Hig concentration can produce a faint acid taste and can cause paralysi of the breathing control centers of the nervous system.

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams ponds, estuaries, oceans or other waters unless in accordance wit the requirements of a National Pollutant Discharge Eliminatio System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluen containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

STATEMENT OF PRACTICAL TREATMENT (FIRST AID) If inhaled: Get exposed person to fresh air immediately. Keet victim lying down and warm. Make sure the person can breath freely. If breathing has stopped, give artificial mouth to mouth resuscitation and supplemental oxygen. Do not give food or objects by mouth to any unconscious person. Seek medical attentior immediately.

If on skin: If exposure to Carbon Dioxide as liquid caused frostbite, flush affected area with lukewarm water. Do not use hot water. A physician should see patient promptly if cryogenic "burn" has resulted in blistering of skin surfaces or in deep tissue freezing.

SEE THE PRODUCT LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

In case of emergency, call CHEMTREC (800) 424-9300 OR INTEGRATED ENVIRONMENTS 9119 ALONDRA BELLFLOWER, CA 90706 (800) 625-7386

RESTRICTED USE PESTICIDE DUE TO ITS ACUTE TOXICITY

This product is for retail sale to, and use only, by Certified Applicators or under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

DIRECTIONS FOR USE

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

For use only with 100% Methyl Bromide MAKR[™], EPA Reg. No. 68146-1. Follow application instructions for Reduced Rate Application method using MAKR[™] Fumigation process.

STRUCTURAL, TRANSPORTATION, SPACE FUMIGATION Aeration and Reentry

After fumigation, aerate treated areas until the level of CO_2 , as measured by a Draeger gas detector, is below 10,000 ppm.

Short term entry into the treated area is permitted when measured CO_2 levels are between 10,000 and 15,000 ppm; MS.{A/NIOSH approved supplied air respirator or SCBA must be worn if 15 or more minutes are spent in the treated area.

If measured CO_2 levels exceed 15,000 ppm, no person shall enter the treated areas without a respiratory protection device such as a U.S. Divers' Survivair or comparable device.

All persons working with this product should be knowledgeable of the hazards of this chemical, and trained in the use of required respirator equipment and detector devices, emergency procedures and use of the product. When used for fumigation of enclosed spaces, (boxcars, silos, ship containers, and other transport vehicles], 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).

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Placarding

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

• 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 size sign is necessary because the treated area is too small to accommodate a sign of this size. Letters shall be clearly legible.

• The signal word: "DANGER/PELIGRO" and the skull and crossbones symbol must be on the placard.

The statement, "Area under fumigation, DO NOT ENTER/NO ENTRE."

- The date of fumigation.
- The name of the furnigant (carbon dioxide).

• Name, address and telephone number of the applicator or pesticide handler.

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 below 5,000 ppm. Each separate treated area (i.e., boxcar, silo, ship container) 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 below 5,000 ppm.

CARBON DIOXIDE TECHNICAL

Common Name:	Carbon Dioxide
Chemical Name:	Carbon Dioxide
Empirical Formula:	CO ₂

Physical Characteristics

Color: Physical State: Odor: Flammability: Explodability: Storage Stability: Colorless Gas at 25°C Odorless Nonflamnable Nonexplosive Stable indefinitely upon storage

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REDUCED RATE APPLICATION METHOD USING MAKR^{IM} FUMIGATION PROCESS

Dosage: To fumigate dried fruits, grains, beans, peas, and dry nuts, use 0.5 pounds of Methyl Broniide MAKR[™] with 11 pounds of MAKR[™] Carbon Dioxide per 1000 cu.ft. For other commodities, use rate of 0.5 pounds of Methyl Bromide MAKR[™] or up to the maximum 50% of the rate given in the table above with 11 pounds of MAKR[™] Carbon Dioxide per 1000 cu.ft.

METHOD OF APPLICATION

General Preparation and Instructions for Application

- 1. Plan the application by calculating the amount of 100% Methyl Bromide MAKR[™] required at the appropriate rate for the commodity, chamber, volume of space, and target pest to be fumigated.
- 2. Plan the amount of MAKR[™] Carbon Dioxide required at the rate of 11 pounds per 1,000 cubic feet to be fumigated.
- 3. Introduce 100% Methyl Bromide MAKR[™] and MAKR[™] Carbon Dioxide through suitable leakproof tubing. The entire amount may be released in one place; but for larger spaces, release it at two or more locations, so chosen to ensure even gas distribution.
- 4. If it is necessary to release 100% Methyl Bromide MAKR¹⁴ from inside a structure, a SCBA must be worn as described in Precautionary Statements.
- 5. Operate a fan or fans with a minimum equivalent of 5 amps power inside the space while introducing 100% Methyl Bromide MAKR¹⁴ and MAKR¹⁴ Carbon Dioxide for a minim⁴ m of 30 minutes thereafter. It is preferable to operate the fan(s) throughout the fumigation treatment.

Method 1: Use of Authorized Dispensing Machine:

The MAKR[™] calibrated dispensing machine is to be operated by a trained, certified applicator.

The dispensing machine heat exchanger should be brought to the minimum operating temperature of 70°F.

Begin the introduction of the required quantity of MAKR[™] Carbon Dioxide. Meter the required quantity of 100% Methyl Bromide

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MAKR[™] into the stream of hot MAKR[™] Carbon Dioxide, adjusting the flow of MAKR[™] Carbon Dioxide and 100% Methyl Bromide MAKR[™] to maintain a minimum temperature of 70°F and an optimum of 130°F.

Method 2: Application Alternative for Small Fumigation Chambers or Small Volumes of Space Fumigation.

STEP 1: Introduce the required amount of 100% Methyl Bromide MAKR^m through a heat exchanger, maintaining a minimum temperature of 70°F.

STEP 2: Introduce last, the required amount of MAKR[™] Carbon Dioxide to the chamber or space to be fumigated. Meter through a heat exchanger, maintaining a minimum temperature of 70°F and optimum of 130°F.

Exposure Time: Exposure times are 50-100% of those listed in the Rate of Application Chart.

AERATION AFTER TREATMENT.

Following fumigation, aerate the treated area until the concentration of methyl bromide is below 5.0 ppm, as measured by a Draeger gas detector, and the level of carbon dioxide, as measured by a Draeger gas detector, is below 10,000 ppm. Entry into the treated area is permitted when methyl bromide levels are above 5.0 ppm if the person wears a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator. Short-term entry into the treated area is permitted when measured carbon dioxide levels are between 10,000 and 15,000 ppm; respiratory protection, such as a U.S. Divers' Survivair or a comparable device must be worn if 15 or more minutes are spent in the treated area. If measured carbon dioxide levels exceed 15,000 ppm, no person shall enter the treated area without a respiratory protection device such as a U.S. Divers' Survivair or a comparable device.

<u>TARPAULIN FUMIGATION/AERATION:</u> Remove tarpaulins and seals. Open any doors and vents that are operational. Operate circulation fans.

<u>CHAMBER FUMIGATICN/AERATION:</u> Operate exhaust fan system. Provide air flow by opening vents and cracking docr.

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PLACARDING:

- 1. The applicator must placard or post all entrances to the fumigated area with signs bearing in English and Spanisl
 - (1) The signal word DANGER/PELIGRO and the skull and crossbones symbol.
 - (2) The statement, "Area under fumigation. DO NO ENTER/NO ENTRE."
 - (3) The date of fumigation.
 - (4) Name of fumigant used.
 - (5) Name, address, and telephone number of the applicator.
- 2. Do not remove placards until the treated space completely aerated to the requirements of the label, ar only under the supervision of a certified applicator.
- 3. Additional warning signs for CO₂ are required to be poste at all entrances to the fumigated area, warning th hazardous levels of CO₂ may be present with possib oxygen deficiency. The methyl bromide and CO₂ warnir signs may be combined. Placarding is available from you dealer or distributor.

QUALIFICATIONS OF APPLICATOR/LICENSEE.

Only applicators/licensees who have completed a training program on the MAKR[™] Fumigation Process and been issued a pock certification card shall be permitted to utilize this protocol. At minimum, four heurs of training will be required including or classroom hour and three hours in the field. Subjects covered sha include the proper application of methyl bromide and MAKR Carbon Diexide, proper posting of warning signs, proper aeratic and ventilation, proper testing for reentry, proper certification, ar proper preparation and filing of reports.

POSSESSION OF LABELS.

Users of the MAKRTH Fumigation Process must be in possession (this label and the label for MAKRTH Carbon Dioxide at the time (pesticide application.

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WARRANTY: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the 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, or under conditions not reasonably foreseeable to the seller, and buyer assumes the risk of any such use.

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CARBON

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For retail sale to and use only by Certified Ay supervision, and only for those uses covered

FOR USE IN THE MAKR I COMMODITY FUMIGAT METHYL BI

ACTIVE INGREDIENTS:	
CARBON DIOXIDE	
INERT INGREDIENTS:	
TOTAL:	

KEEP OUT OF I

STATEMENT OF

If inhaled: Get exposed person to fresh : warm. Make sure the person can breather mouth to mouth resuscitation and suppler mouth to any unconscious person. Seek If on skin: If exposure to Carbon Dioxid lukewarm water. Do not use hot water. cryogenic "burn" has resulted in blisteriny <u>NOTE TO PHYSICIAN</u>: Symptoms of or shortness of breath, muscular weakness produce a faint acid taste and can cause nervous system.

STORAGE AND

Store in dry, cool, well-ventilated area L area. Do not contaminate water, food *i* product.

Store cylinders upright, secured to rack subjected to rough handling or mechar sliding. Do not use rope slings, hooks Transport cylinders using hand truck o

Do not remove valve protection bonne Replace salety cap and valve protecti

When cylinder is empty, close valve, protection bonnet before returning to cylinders. Do not use cylinders for # return of empty or partially empty cyl

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EPA REG. NO. 68146-M INTEGRATED 9 BELLFL

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANMALS HAZARDOUS LIQUID AND VAPOR UNDER PRESSURE. CO2 IS 1.5 THJES HEAVIER THAN AIR.

DO NOT BREATH VAFORS. LIQUID CAN CAUSE FROSTBITE,

EXPOSURE TO HIGH LEVELS MAY OCCUR WITHOUT WARNING OR DETECTION BY THE USER.

DANGER: Fatal if inhaled. Do not breath vapor. Do not get liquid on skin or in eyes. For handling activities in enclosed areas 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/Reentry and Respiratory Protection

After fumigation, aerate treated areas until the level of CO₂, as measured by a Draeger gas detector is below 10,000 ppm.

Short term entry into the treated area is permitted when measured CO_z levels are between 10,000 and 15,000 ppm; MSHANIOSH approved supplied air respirator or SCBA must be worn if 15 or more minutes are spent in the treated area.

If measured CO₂ levels exceed 15,000 ppm, no person shall enter the treated areas without a respiratory protection device such as a U.S. Divers' Survivair or comparable device.

All persons working with this product should be knowledgeable of the hazards of this chemical, and trained in the use of required respirator equipment and detector devices, emergency procedures and use of the product. When used for furnigation of enclosed spaces, (boxcars, silos, ship containers, and other transport vehicles], two persons familiar with the use of this product must be present during introduction of the furnigant, 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 furnigated).

Spill and Lask Procedure

Evacuate immediate area of leak. Use SCBA or combination air-supplied/SCBA respirator 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 il 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 concentration of carbon dioxide is determined to be less than 5,000 ppm.

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	U Environmental Weshin	nited States Protection Ington, DC 20460		XX	Registration Amendmer Other	n OPP Identitier Number
		Application (for Pesticid	e - Section	l	
L. Company/Product Number	r			oduct Menager		3. Proposed Classification
67517-8			For	rest		V None Restricted
L. Company/Product (Name) Starlicide Comp			РМ# 14			
5. Name and Address of App PM Resources, In 13001 St. Charle Bridgeton, MO 6 Check if this	nc. es Rock Road	de)	(b)(i), my to: EPA Re	product is simi	lar or identical	with FIFRA Section 3(c)(3) in composition and labeling
			Section - II	t Name		
Amendment - Explain Resubmission in resp X Notification - Explain Explanation: Use addition Adding Misuse S	oonse to Agency letter below. nal pege(s) if necessar	y. (For section I a		Final printsd label Aguscy letter date "Me Too" Applica Other - Explain be	ed ation.	
			Section - III			
1. Material This Product Wil	l Be Packaged In:					
1. Material This Product Wil Child-Resistant Packaging	Unit Packaging	Y	Nater Soluble Pa	ckaging	2. Type of Con	
Child-Resistant Packaging	Unit Packaging		Yes	ckaging	M	tainer Iotal Astic
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Child-Resistant Packaging Yes* No * Certification must be submitted 3. Location of Net Contants Label C 6. Manner in Which Label is 1. Contact Point (Complete Name R. E. Broyles	Unit Packaging Yes No If "Yes" Unit Packaging wgt. Information Container Affixed to Product	No. per container 4. Size(s) Retail (Lithograph Paper glue Stenciled for identification o Tit Certificatio n this form and all	Yes No f "Yes" Package wgt Container Container Section - IV f individual to be te Agent n ettachments the	No. per container 5. Lo 5. Lo Contacted, if ne contacted, if ne contacted, if ne contacted, if ne contacted, if ne contacted c	Cation of Label D On Label On Label On Labeling	etal astic ass per ther (Specify) birections accompanying product ss this application.) ephone Nox (Include Area Code) 6. Data Application
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TE TOXICITY licators, or persons under their direct y the Certified Applicator's certification.

> > 100.0%

MIGATION PROCESS FOR N AND ONLY WITH 100% MIDE MAKR'

CH OF CHILDREN



ACTICAL TREATMENT

mmediately. Keep victim lying down and ely. If breathing has stopped, give artificial tal oxygen. Do not give food or objects by cical attention immediately. liquid caused frostbite, flush affected area with hysician should see patient promptly if skin surfaces or in deep tissue freezing. cposure are headache, dizziness, drowsiness, ringing in ears. High concentration can alytic of the breathing control centers of the

IDLING INSTRUCTIONS lock and key. Post as a pesticide storage d by the storage or disposal of this pesticidal

rall to prevent tipping. Cylinders should not be thock such as dropping, bumping, dragging or s or similar devices to unload cylinders. In the cylinder can be firmly secured.

salely cap until immediately before use, nnet when cylinder is not in use.

salety cap onto valve outlet and replace r. Only the registrant is authorized to refit er purpose. Follow registrant's instructions for

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LBS.

EPA EST. NO.

CTURED FOR ONMENTS INTERNATIONAL ONDRA BLVD, CALIFORNIA 90706

DIRECTIONS FOR USE

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

For use only with 100% Methyl Bromidh MAKR. Follow application instructions for Reduced Rate Application method using MAKR Fumigation process.

PLACARDING: Structural, Transfortation, Space Fumigation

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

• 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 size sign is necessary because the treated area is too small to accommodate a sign of this size. Letters shall be clearly legible.

 The signal word: "DANGER/PELIGRO" and the skull and crossbones symbol must be on the placard.

- . The statement, "Area under fumigation, DO NOT ENTER/NO ENTRE."
- The date of furnigation.
- The name of the fumigant (carbon dioxide).
- · Name, address and telephone number of the applicator or pesticide handler.

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 cloxide is below 5,000 ppm. Each separate treated area (i.e., boxcar, silo, ship container) 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 below 5,000 ppm.

* MAKR is a trademark for integrated Environments International, patent pending.

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