



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

91274-1

Date of Issuance:

6/9/16

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

IGI Carbon Dioxide

Name and Address of Registrant (include ZIP Code):

IGI, LLC  
c/o  
Micah T. Reynolds  
Technology Sciences Group, Inc.  
1150 18<sup>th</sup> Street, Suite 1000  
Washington, DC 20036

**Note:** Changes in labeling 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 EPA registration number.

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

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Mark Suarez, Product Manager 07  
Invertebrate & Vertebrate Branch 3, Registration Division  
(7505P)

Date:

6/9/16

2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 91274-1.”
3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

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.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 08/13/15
- Alternate CSF 1 dated 08/13/15
- Alternate CSF 2 dated 08/13/15

If you have any questions, please contact Gene Benbow by phone at 703-347-0235, or via email at [Benbow.Gene@epa.gov](mailto:Benbow.Gene@epa.gov).

Enclosure

**MASTER LABEL – IGI CARBON DIOXIDE**

(Note to Reviewer: [bracketed text] is alternate or optional wording; (parenthetical text) is informational.)

# IGI CARBON DIOXIDE

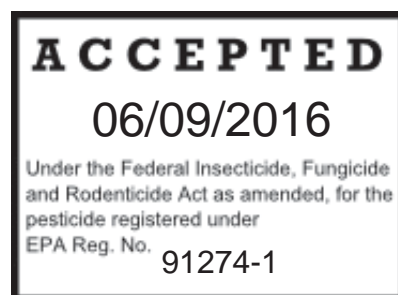
**(MASTER LABEL)**

**Sublabel A: Container/CO<sub>2</sub> Cylinder Label**  
**Sublabel B: Booklet Label**  
**Optional Label Claims**

**ACTIVE INGREDIENT:**  
Carbon Dioxide ..... 99.9%  
**OTHER INGREDIENTS:** ..... 0.1%  
TOTAL 100.0%

**EPA Reg. No.:** 91274-R  
**EPA Est. No.:** XXXXX-XX-XXX

**[Manufactured] [Produced] for:**  
IGI, LLC  
600 West Taddei Road  
Acampo, CA 95220



**MASTER LABEL – IGI CARBON DIOXIDE**  
 (Note to Reviewer: [bracketed text] is alternate or optional wording: (parenthetical text) is informational.)

**(SUBLABEL A: Container/CO<sub>2</sub> Cylinder Label)**

(Note to Reviewer: Sublabel A consists of label elements to be contained on the label securely attached to the immediate container of the product.)

# IGI CARBON DIOXIDE

**ACTIVE INGREDIENT:**

Carbon Dioxide .....99.9%

**OTHER INGREDIENTS:** .....0.1%

**TOTAL** ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN  
 WARNING**

<b>FIRST AID</b>	
<b>if inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor immediately for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call 1-800-222-1222.	

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS – WARNING:** May be fatal if inhaled. Do not breathe vapor. Exposure may cause suffocation and death. Ventilate areas before entering. For handling activities in enclosed areas during and after application, use either a supplied-air respirator with NIOSH approval number TC-19C or a self-contained breathing apparatus (SCBA) with NIOSH approval number TC-13F.

**Net Wt.:** XX

**[Lot] [Batch] No.:** XX

[See] [Refer to] application [manual] [booklet] for Directions for Use.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in dry, cool, well-ventilated area under lock and key. Post as a pesticide storage area. Store cylinders upright, secured to a rack or wall to prevent tipping. Do not subject cylinders 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.

**PESTICIDE DISPOSAL:** Vent unusable carbon dioxide to open air.  
**CONTAINER HANDLING:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Return empty cylinders for reuse and disposal. When cylinder is empty, close valve, screw safety cap onto valve outlet and replace protection bonnet before returning to shipper. Do not use cylinders for any other purpose. Follow registrant's instruction for return of empty or partially empty cylinders.

**SPILL AND LEAK PROCEDURES**

Evacuate immediate area of leak. Use respiratory device (see PRECAUTIONARY STATEMENTS) for entry into affected enclosed 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 or, if instructed, recycle/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.

**[Manufactured] [Produced] for:**

IGI, LLC  
 600 West Taddei Road  
 Acampo, CA 95220  
**EPA Reg. No.:** 91274-R  
**EPA Est. No.:** XXXXX-XX-XXX

## MASTER LABEL – IGI CARBON DIOXIDE

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### (SUBLABEL B: Booklet Label)

(Note to Reviewer: Sublabel B consists of label elements to be contained in the booklet to accompany the product container.)

# IGI CARBON DIOXIDE

#### ACTIVE INGREDIENT:

Carbon Dioxide ..... 99.9%

OTHER INGREDIENTS: ..... 0.1%

TOTAL ..... 100.0%

### KEEP OUT OF REACH OF CHILDREN WARNING

FIRST AID	
<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, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor immediately for treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call 1-800-222-1222.	

#### PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS – WARNING:** May be fatal if inhaled. Do not breathe vapor. Exposure may cause suffocation and death. Ventilate areas before entering. For handling activities in enclosed areas during and after application, use either a supplied-air respirator with NIOSH approval number TC-19C or a self-contained breathing apparatus (SCBA) with NIOSH approval number TC-13F.

**EPA Reg. No.:** 91274-R

**EPA Est. No.:** XXXXX-XX-XXX

**Net Wt.:** XX

**Lot No.:** XX

**[Manufactured] [Produced] for:**

IGI, LLC

600 West Taddei Road

Acampo, CA 95220

## MASTER LABEL – IGI CARBON DIOXIDE

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### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read all directions for use carefully before applying.

### PRODUCT INFORMATION

This product is used to fumigate silos, storages, trucks, trailers, sealed railroad cars, and cargo ships. The following agricultural commodities and other products may be treated: corn, including popcorn, barley, oats, rice (milled and/or enriched), sorghum, wheat, rye and other small grains, cocoa beans, coffee beans, flour, cereal and related products, all dry beans, peas, macaroni and pasta products, dry milk and products made with dry milk, nuts including peanuts, almonds, walnuts, pecans, filberts, cashews and brazil nuts, dried fruits including apples, apricots, currants, dates, figs, peaches, prunes, pears and raisins, raw and processed tobacco, brewer's grits, candy, all spices, all herbs, animal feed in bulk or bags, birdseed, mammal skins, stuffed animals, herbarium, specimens, rare books and wood products such as carvings.

This product is effective against the following types of pests that occur in stored products and in structures that may be fumigated with this product:

- 1) **Beetles**, including the granary weevil, rice weevil, broadnosed grain weevil, lesser grain borer, larger grain borer, confused flour beetle, red flour beetle, American black flour beetle, khapra beetle, warehouse beetle, longheaded flour beetle, slender-horned flour beetle, larger black flour beetle, yellow mealworm, dark mealworm, black carpet beetle, rusty grain beetle, flat grain beetle, saw-toothed grain beetle, merchant grain beetle, foreign grain beetle, corn sap beetle, cigarette beetle, drugstore beetle, cowpea weevil, bean weevil, pea weevil, broadbean weevil, coffee bean weevil and cadelle;
- 2) **Psocoptera**, including the book louse;
- 3) **Moths**, including the Angoumois grain moth, Indian meal moth, almond moth, raisin moth, tobacco moth, Mediterranean flour moth, meal moth, rice moth, navel orangeworm, webbing clothe moth, casemaking clothes moth and carpet moth.

### APPLICATION DIRECTIONS

#### Storage, Transport, and Containment Structure Pest Control

For storage and structural fumigation, maintain as near to 60%  $\pm$ 10% (600,000 ppm) CO<sub>2</sub> as possible. Treatment times vary from 24 hours to 4 days. Do not fumigate if temperature is less than 40°F. Structures to be fumigated should be as gas tight as possible before treatment.

#### Storage Vessels

Purge storage vessel (bin, silo, or sealed railcar) to a minimum concentration of 60% (600,000 ppm) atmosphere. Use a two-day treatment for killing adult insects and a four-day treatment for killing all life stages of insects. For specific flows to use, contact a qualified fumigation engineer.

#### Trucks & Trailers

Treat as indicated above in Storage Vessels. Do not move truck or trailer during treatment. Trucks and trailers must be aerated before movement is allowed.

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### Shipboard, In-transit Ship, or Shiphold Fumigation

Treat as indicated above in Storage Vessels. **IMPORTANT:** Shipboard, in-transit ship, or shiphold 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/her representative and the fumigator must determine whether the vessel is suitably designed and configured 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 reoccupy the vessel until the vessel has been properly aerated and a 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 must 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 must 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 is not aerated before the manned vessel leaves port, the person in charge of the vessel must ensure that at least two units of personal protection equipment, one gas or vapor detection device, and a person qualified in the 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 protection 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

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equipment for the fumigant means a supplied-air respirator with NIOSH approval number TC-19C or a self-contained breathing apparatus (SCBA) with NIOSH approval number TC-13F.

### AERATION

After application of product in enclosed spaces, aerate treated areas until the level of CO<sub>2</sub>, as measured by commercially available analyzers, is below 5,000 ppm. Follow the instructions as written in the manufacturer's operation manual.

#### 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 (between 5,000-30,000 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 in the PRECAUTIONARY STATEMENTS.

#### RE-ENTRY (greater than 30,000 ppm CO<sub>2</sub>):

If CO<sub>2</sub> levels are over 30,000 ppm, persons must always wear the respiratory protection device specified in the PRECAUTIONARY STATEMENTS.

The U.S.D.A. has set a limit of 0.5% (5,000 ppm) maximum CO<sub>2</sub> concentration in work areas.

### TRAINING

All persons working with this product must be knowledgeable of the hazards of this product, 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).

### PLACARDING STATEMENT

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

- a) The sign must be at least 14 inches by 16 inches in size and the letters must 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 must be clearly legible.
- b) The signal word, "DANGER/PELIGRO" and the skull and crossbones symbol must be on the placard.
- c) The statement, "Area under fumigation, DO NOT ENTER/NO ENTRE."
- d) The date of fumigation.
- e) The name of the fumigant (carbon dioxide).
- f) 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-



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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 at or below 5,000 ppm.

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in dry, cool, well-ventilated area under lock and key. Post as a pesticide storage area. Store cylinders upright, secured to a rack or wall to prevent tipping. Do not subject cylinders 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.

**PESTICIDE DISPOSAL:** Vent unusable carbon dioxide to open air.

**CONTAINER HANDLING:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Return empty cylinders for reuse and disposal. When cylinder is empty, close valve, screw safety cap onto valve outlet and replace protection bonnet before returning to shipper. Do not use cylinders for any other purpose. Follow registrant's instruction for return of empty or partially empty cylinders.

### SPILL AND LEAK PROCEDURES

Evacuate immediate area of leak. Use respiratory device (see PRECAUTIONARY STATEMENTS) for entry into affected enclosed 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 or, if instructed, recycle/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.