



U S ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7504P)
1200 Pennsylvania Ave N W
Washington D C 20460

EPA Reg Number

47870-1

Date of Issuance

SEP 27 2012

NOTICE OF PESTICIDE

XX Registration

XX Reregistration

(under FIFRA as amended)

Terms of Issuance
Unconditional

Name of Pesticide Product
Propylene Oxide

Name and Address of Registrant (include ZIP Code)

ABERCO Inc
c/o Balchem Corporation
52 Sunrise Park Road
New Hampton, NY 10958

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/reregistered 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

EPA received a label amendment request submitted by email on August 15 2012 EPA grants this request under the authority of section 3(c)(5) of the Federal Insecticide Fungicide and Rodenticide Act as amended With this accepted labeling all requirements set forth in the Reregistration Eligibility Decision for Propylene Oxide have been satisfied Therefore, EPA reregisters the product listed above 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

Submit one (1) copy of final printed labeling Amended labeling will supersede all previously accepted labels A copy of your label stamped Accepted is enclosed for your records Products shipped after 12 months from the date of this Notice or the next printing of your label whichever occurs first must bear the new revised label

If you have any questions or comments regarding this letter please contact Heather Garvie at (703) 308 0034 or via e mail at garvie.heather@epa.gov

Signature of Approving Official

[Handwritten signature]

Cynthia Giles-Parker
Acting Product Manager (Team 20)
Fungicide Branch
Registration Division

Date

SEP 27 2012

RESTRICTED USE PESTICIDE DUE TO INHALATION TOXICITY
 For sale to and use only by Certified Applicators or persons under their
 direct supervision and only for those uses covered by the Certified
 Applicator's certification

CAS 75 56 9 UN1280

PROPYLENE OXIDE

Fumigant

ACTIVE INGREDIENT Propylene Oxide 100%

This product contains 6.92 lbs of active ingredient per gallon

KEEP OUT OF REACH OF CHILDREN



DANGER PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en
 detalle (if you do not understand this label, find someone to explain it to you in detail)

FIRST AID

IF SWALLOWED	Have person sip a glass of water if able to swallow DO NOT induce vomiting unless instructed to do so by doctor or poison control center Do not give anything to an unconscious person Call poison control center or doctor immediately for treatment advice
IF ON SKIN or CLOTHING	Take off contaminated clothing Rinse skin immediately with plenty of water for 15-20 minutes Call a poison control center or doctor immediately for treatment advice
IF INHALED	Move person to fresh air If person is not breathing call 911 or an ambulance then give artificial respiration preferably by mouth if possible Call poison control center or doctor immediately for treatment advice
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15 minutes Remove contact lenses if present after the first 5 minutes then continue rinsing eye
HOTLINE NUMBER	Call a poison control center or doctor for treatment advice Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact 1-800-424-9300 for emergency medical treatment information
NOTE TO PHYSICIAN	Possible mucosal damage may contraindicate the use of gastric lavage

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Distributed by ABERCO Inc a Balchem Company
 52 Sunrise Park Road, New Hampton, NY 10956
 Phone 845-326-5611 Fax 845-326-5706

It is imperative that users of this material be familiar with ABERCO/Balchem's
 Material Safety Data Sheet for 100% Propylene Oxide and the Valve Tag attached
 to this container

EPA Establishment No. 36736 SC 01 EPA Registration No. 47870-1
 CA Registration No. 47870 00007 AA

Net Contents 0 375 lbs 0 380lbs 0 765lbs 0 _____

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 in a way that will contact workers or other persons either
 directly or through drift. Only protected handlers may be in the area during application.
 For any requirements specific to your State or Tribe consult the agency responsible for
 pesticide regulation.

This product is for use only in Sealed Chambers

FUMIGATION IN VACUUM SEALED CHAMBERS
 For all PPO applications of >75 lbs air/1,000 ft³ (1.2 oz/ft³) and ≤150 lbs air/1,000 ft³ (2.4
 oz/ft³) the chamber must be equipped with equipment specifically designed to reduce
 PPO emissions by at least 95 percent.

For chambers <5,000 ft³ with PPO application rates of ≤75 lbs air/1,000 ft³ (1.2 oz/ft³)
 a chamber must have a release height of at least 27 feet and during the aeration
 period there must be a minimum flow rate through the stack equivalent to at least
 20 air changes per hour OR

a chamber must have a release height of at least 40 feet and a minimum flow
 through the stack equivalent to at least 4 air changes per hour OR
 the chamber must be equipped with equipment specifically designed to reduce
 PPO emissions by at least 95 percent.

For chambers >5,000 ft³ and ≤10,000 ft³ with application rates of PPO ≤75 lbs
 air/1,000 ft³ (1.2 oz/ft³)

a chamber must have a release height of at least 40 feet and during the aeration
 period there must be a minimum flow rate through the stack equivalent to at least
 20 air changes per hour OR
 the chamber must be equipped with equipment specifically designed to reduce
 PPO emissions by at least 95 percent.

This fumigant is a highly hazardous material and must only be used by individuals
 trained in its proper use. Before using read and follow all label precautions and
 directions.

All persons working with this fumigant must be knowledgeable of the hazards of this
 chemical and trained in the proper use of required respirator equipment and detector
 devices emergency procedures and use of this fumigant.

For non food use as an insecticidal fumigant for the control of stored product insects in
 cosmetic articles and ingredients non edible grains, ores packaging pigments
 pharmaceutical materials books and discarded nut shells prior to disposal

To aid in the control of microbiological spoilage and as an insecticidal fumigant for the
 control of stored products insects. To reduce bacterial and mold contamination in
 processed spices cacao beans cocoa powder shell and processed nutmeats (except
 peanuts) grape raisins figs and plum prunes dried

WHEN USED AT FULL STRENGTH WITH OR WITHOUT AN INERT GAS

Add product in a vacuum to fumigator retort at the rate specified below for a given use
 site. Temperature must not be in excess of 125° F for food uses

Nut tree group 14. Nutmeat processed except peanuts. Nut pine and Pistachio
 Fumigate raw or processed tree nuts at a maximum rate of 2.0 oz air/ft³ in the retort for
 up to 6 hours and follow treatment with four chamber volumes of air. Hold tree nuts at
 25° C for 28 days or at 35° C prior to shipment. Alternatively tree nuts can be shipped if
 residues of propylene oxide are determined to be below 300 PPM. (See list of current
 Crop Group 14 commodities in column to right)

Herbs and spices group 19 dried Garlic dried and Onion dried
 Fumigate processed spices at a maximum rate of 2.0 oz air/ft³ in the retort for up to 12
 hours and follow treatment with four chamber volumes of air. Hold spices 48 hours at
 25° C or higher prior to shipment. Alternatively spices can be released for shipment if
 residues of propylene oxide are determined to be below 300 PPM. (See list of current
 Crop Group 19 commodities in table to the right)

Cacao bean, dried bean and Cacao bean, cocoa powder
 Fumigate cacao bean and cocoa powder at a maximum rate of 2.0 oz air/ft³ in the retort
 for up to 4 hours and follow treatment with four chamber volumes of air. Hold cacao
 bean and cocoa powder 48 hours at 25° C or higher prior to shipment. Alternatively
 cacao bean and cocoa powder can be released for shipment if residues of propylene
 oxide are determined to be below 300 PPM

**For Non Food Contact Applications To Cosmetic Articles And Ingredients. Non
 Edible Gums. Ores. Packaging Pigments. Pharmaceutical Materials. Books And
 Discarded Nut Shells Prior To Disposal**

Apply at a maximum of 2.0 oz air/ft³ per application in a vacuum sealed chamber. Apply
 for up to 24 hours at a maximum temperature of 135° F and follow treatment with four
 chamber volumes of air.

Fig, Grape, raisin and Plum, prune, dried
 [Note: Propylene Oxide MUST be used in combination with an inert gas on figs,
 prunes or raisins.]

**WHEN USED AT 8 / CONCENTRATION AND IN COMBINATION WITH AN INERT
 GAS SUCH AS CARBON DIOXIDE OR NITROGEN** (can be used in this manner for all
 materials)

Propylene oxide may be used in combination with carbon dioxide or nitrogen which is
 added to the retort along with propylene oxide. This reduces the flammability of the
 gases in the retort and increases the efficiency of heat transfer to the items being
 treated. The approved mixture is 8% propylene oxide and 92% inert gas. This can be
 obtained by adding propylene oxide in a vacuum to the retort at not more than 0.2
 ounces per cubic foot of space in the retort. Carbon dioxide or nitrogen may then be
 added to restore ambient pressure taking care not to vent propylene oxide during
 addition to the inert gas. When this mixture is used the treatment time may be extended
 up to 48 hours. The temperature must not be in excess of 125° F. After treatment
 exhaust the retort and air wash with four chamber volumes of air. This method of
 treatment is allowed on all commodities but is the only type allowed on figs,
 prunes or raisins.

Holding Times for Fumigation using 92 / carbon dioxide and 8 / Propylene Oxide
 For figs, prunes and raisins hold sample 24 hours at 25° C or higher, prior to shipment.
 For all other commodities no holding time is required.

PLACARDING OF FUMIGATED ENCLOSURES

- The certified applicator supervising the fumigation (or person under his/her direct
 supervision) must placard all entrances to the fumigation enclosure with signs bearing
1. Skull and crossbones symbol
 2. DANGER/PELIGRO
 3. Area under fumigation DO NOT ENTER/NO ENTRE
 4. Propylene Oxide Fumigant in use
 5. The date and time of fumigation and
 6. Name, address and telephone number of the certified applicator supervising
 the fumigation

These signs must be posted at eye level and must be visible from all points of entry to
 the treated area. They must remain posted during the application and throughout the
 entry restricted period.

The certified applicator supervising the fumigation must ensure that no person, except
 the certified applicator or persons under his/her direct supervision who are wearing
 appropriate respiratory protection, enters into the treated enclosure until the signs are
 removed. Such signs must only be removed when aeration has occurred and when the
 air concentration level of propylene oxide is monitored as described in this labeling and
 the monitoring indicates that workers can enter without respiratory protection. Signs
 must remain legible during entire posting period.

The warning signs at entrances to fumigation enclosure may only be removed by the
 certified applicator supervising the fumigation or person under his/her direct supervision.
 Vehicles must be placarded with applicable U.S. Department of Transportation warning
 signs.

Crop Group 14. Tree Nuts Group

Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert,
 (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan and Walnut, black and
 English (Persian)

Crop Group 19. Herbs and Spices Group

Crop Subgroup 19A. Herb Subgroup	Angelica, Balm, Basil, Borage, Burnet, Camomile, Catnip, Chervil (dried), Chive, Chive, Chinese daisy, Conander (leaf), Cosmisy, Culantro (leaf), Curry (leaf), Dillweed, Horehound, Hyssop, Lavender, Lemongrass, Lovage (leaf), Mangold, Maroram (<i>Origanum</i> spp.), Nasturtium, Parsley (dried), Pennyroyal, Rosemary, Rue, Sage, Savory, Summer and winter, Sweet bay, Tansy, Tarraagon, Thyme, Wintergreen, Woodruff and Wormwood
Crop Subgroup 19B. Spice Subgroup	Allspice, Anise (seed), Anise star, Annetto (seed), Caper (buds), Caraway, Caraway black, Cardamom, Cassia (buds), Celery (seed), Cinamon, Clove (buds), Conander (seed), Culantro (seed), Cumim, Dill (seed), Fennel, common, Fennel, Florence (seed), Fenugreek, Grains of paradise, Juniper (berry), Lovage (seed), Mace, Mustard (seed), Nutmeg, Pepper, black, Pepper, white, Poppy (seed), Saffron and Vanilla

**PRECAUTIONARY STATEMENTS
HAZARDOUS TO HUMANS & DOMESTIC ANIMALS
DANGER**

CORROSIVE Fatal if swallowed through skin. Fatal if inhaled. Causes irreversible eye damage. Causes skin burns. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

DO NOT BREATHE VAPORS OR FUMES If the concentration of propylene oxide in the workroom or area exceeds the air concentration level (see below) respiratory protection is mandatory. See Respirator Requirements below for acceptable types of respirators.

AIR CONCENTRATION LEVEL The acceptable air concentration level for persons exposed to propylene oxide is 2 ppm (8.0 mg/m³) as a time weighted average.

PERSONAL PROTECTIVE EQUIPMENT (PPE) Some materials that are chemical resistant to this product are Tychem or Neoprene for up to 8 hours of exposure and Teflon and PVEVAL for up to 4 hours of exposure.

All handlers opening propylene oxide cylinders, drums or tanks, cleaning up leaks or spills, or who otherwise may potentially contact liquid propylene oxide, must wear:
 Coveralls over long sleeved shirt and long pants
 Chemical resistant gloves made of any waterproof materials
 Chemical resistant footwear plus socks
 Chemical resistant apron and
 Face sealing goggles or
 Full face shield, unless a respirator that covers the entire face is worn.

Respirator Requirements. Once propylene oxide is introduced into an enclosure, the certified applicator, supervising the fumigation must make sure that all persons in the exposure area (the treatment area and the buffer zone, if applicable) have appropriate respiratory protection or are removed from the exposure area.

Air Concentrations 10 ppm or Greater from a Direct Read Device or Air Concentrations Greater than 2 ppm as an 8 Hour Time Weighted Average
 If propylene oxide air concentration level is measured to be 10 ppm or greater at anytime when measured using a direct read device or if propylene air concentration exceeds 2 ppm as an 8 hour time weighted average, each person in the exposure area must wear either:

- a supplied air respirator (MSHA/NIOSH approval number TC 19C) or
- a self contained breathing apparatus (SCBA) (MSHA/NIOSH approval number prefix TC 13F)
- Any NIOSH approved air purifying respirator (APR) outfitted with an organic vapor canister/cartridge and an end-of-service life indicator (ESLI) certified by NIOSH for the contaminant (APR is not approved for IDLH situations) or
- Any NIOSH approved air purifying respirator (APR) outfitted with an organic vapor canister/cartridge for which, if there is no ESLI, certified by NIOSH for the contaminant, the employer implements a change schedule for canisters and cartridges that is based on documented objective information or data that will ensure that canisters and cartridges are changed before the end of their service life (APR is not approved for IDLH situations)

Air Concentration lower than 10 ppm from a Direct read Device and at or below 2 ppm as an 8 hour Time Weighted Average
 No respirator is required if the air concentration level of propylene oxide in the exposure area is measured to be lower than 10 ppm using a direct read device and at or below 2 ppm as an 8 hour time weighted average.

WORKER SAFETY REQUIREMENTS

Respirator Requirements. When a respirator is required for use with this product, the certified applicator supervising the fumigation must make sure that:

- a) Respirators must be fit tested and fit checked using a program that conforms with OSHA's requirements (described in 29CFR Part 1910.134)
- b) Respirator users must be trained using a program that conforms with OSHA's requirements (described in 29CFR Part 1910.134)
- c) Respirator users must be examined by a qualified medical practitioner to ensure the physical ability to safely wear the style of respirator worn.
- d) Respirators must be maintained according to a program that conforms with OSHA's requirements (described in 29CFR Part 1910.134)

- If liquid fumigant splashes or spills on clothing, remove them at once, and place them outdoors in an isolated place to aerate because fumes will be an intolerable source of irritation.
- Immediately after application, remove personal protective equipment. Do not reuse the personal protective equipment until cleaned. Keep and wash the work clothing and personal protective equipment separately from other laundry.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.
- Follow manufacturer's instructions for cleaning/maintaining personal protective equipment.

User Safety Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
 Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
 Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

PHYSICAL OR CHEMICAL HAZARDS

CYLINDERS AND DRUMS ARE UNDER PRESSURE. Cylinders or drums must only be opened after connections to process have been completed and leak tested. See PERSONAL PROTECTION EQUIPMENT section for protective gear that must be worn.

EMPTYING CYLINDERS OR DRUMS. Electrically ground cylinder or drum. Nitrogen is the only gas that is to be used to displace cylinder or drum contents. A pressure relief device set to 50 psig should be installed on the nitrogen line.

EXTREMELY FLAMMABLE

CONTENTS UNDER PRESSURE. Do not puncture or incinerate container. Exposure to temperatures above 165 F will cause a fusible plug to melt and contents will be released. This product is an extreme fire hazard. The flash point is 35 F and the flammable limits of vapor in air, in percent by volume, are 2.1 lower and 38.5 upper. Keep away from heat, sparks, open flame and heated surfaces.

IN CASE OF FIRE

FIRE. Use carbon dioxide or dry chemical on small fires and alcohol foams on large fires. Water spray may be ineffective, but use water to keep exposed cylinders or drums cool in advanced or massive fire. Firefighting must be done from a safe distance or a protected location. Wear self-contained breathing apparatus (SCBA) and full protective clothing.

DO NOT CONTAMINATE CONTENTS. Hazardous polymerization may occur. Do not allow foreign material to get into this cylinder or drum, particularly acidic or alkaline materials.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds and mammals. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent 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.

PESTICIDE STORAGE AND DISPOSAL

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

SPILL AND LEAK PROCEDURES

Evacuate everyone from the immediate area of the spill or leak. For entry into affected area to correct problem, wear the personal protective equipment (including prescribed respirators) specified in the Personal Protective Equipment section of this labeling. Move leaking or damaged containers outdoors or to an isolated location. Observe strict safety precautions. Work upward, if possible. Allow spilled fumigant to evaporate. Only correctly trained and PPE equipped handlers are permitted to perform such cleanup. Do not permit entry into the spill or leak area by any other person until the air concentration level of propylene oxide is measured to be at or below 2 ppm as an 8-hour time weighted average.

Contaminated soil, water, and other cleanup debris is a toxic hazardous waste. Report spill to the National Response Center (800-424-8802) if the reportable quantity of 100 lbs. is exceeded.

PESTICIDE STORAGE. Store in a well ventilated, cool, secure (under lock and key) area away from heat, flame, sparks, electrical equipment, or other ignition sources. Store containers in a well ventilated area.

PESTICIDE DISPOSAL. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture or residue is a violation of Federal Law. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide Environmental Control Agency or the Hazardous Waste representative of the nearest EPA regional office for guidance.

CONTAINER HANDLING. Persons moving, handling, or opening containers must wear the personal protective equipment (including prescribed respirators when necessary) specified in the Personal Protective Equipment section of this labeling. Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Return empty cylinder or drum to ABERCO Inc. for reuse.

WARRANTY DISCLAIMER AND INHERENT RISKS OF USE

To the extent consistent with applicable law, ABERCO warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the Directions For Use, with the proviso that it is impossible to eliminate all risks inherently associated with the use of this product because of abnormal conditions of use of the product in a manner inconsistent with the label, the manner of application and other factors, all beyond the control of ABERCO. To the extent consistent with applicable law, all such risks are assumed by the Buyer. **ABERCO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY TO THE EXTENT CONSISTENT WITH APPLICABLE LAW. ABERCO SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.** Use of this product evidences Buyer's acceptance of the foregoing terms.

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at ABERCO'S election, one of the following:
 1. Refund of purchase price paid by buyer or user for product bought, or
 2. Replacement of amount of product used.

The terms of the 'Warranty Disclaimer' above and this 'Limitation of Remedies' shall constitute the entire agreement between the parties to this contract. ABERCO is authorized to amend these terms at any time without notice.

No employee or sales agent of ABERCO is authorized to make any statement or agreement that is inconsistent with the 'Warranty Disclaimer' or this 'Limitation of Remedies' in any manner.

SEP 27 2012

Under the Federal Insecticide
Fungicide and Rodenticide Act
as amended under 47870 - 1