

47870-1

8/9/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

AUG 09 2011

Joanne K. Cashin  
ABERCO INC., Balchem Corporation  
52 Sunrise Park Rd.  
New Hampton, NY 10958

Subject: Application for Pesticide Notification (PRN 98-10)  
Submission date: 7/11/11  
Product Name: Propylene Oxide  
EPA Reg. No.: 47870-1  
EPA Decision Number: 452155

Dear Ms. Cashin:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10.

The Agency acknowledges the changes to the *Storage and Disposal* and the *Physical or Chemical Hazards* sections of the label to be reflective of the use of cylinders.

The label submitted with the application has been stamped "Notification" and will be placed in our records. If you have questions concerning this letter, please contact Heather Garvie at 703-308-0034 or me at 703-308-3194.

Sincerely,

A handwritten signature in cursive script that reads "Shaja B. Joyner".

Shaja B. Joyner  
Product Manager 20  
Fungicide Branch  
Registration Division (7505P)

2015

Print Form

Please read instructions on reverse before completing form.

Form Approved MB No. 2070-0060



United States  
Environmental Protection Agency  
Washington, DC 20460

|                                     |              |
|-------------------------------------|--------------|
| <input type="checkbox"/>            | Registration |
| <input type="checkbox"/>            | Amendment    |
| <input checked="" type="checkbox"/> | Other        |

OPP Identifier Number

### Application for Pesticide - Section I

|  |   |  |
|--|---|--|
| 1. Company/Product Number<br>ABERCO INC./47870-1   | 2. EPA Product Manager<br>Shaja B. Joyner   | 3. Proposed Classification<br><input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted |
| 4. Company/Product (Name)<br>ABERCO INC./Propylene Oxide   | PM#<br>20   |  |
| 5. Name and Address of Applicant (Include ZIP Code)<br><br>ABERCO INC., Balchem Corporation<br>52 Sunrise Park Rd., New Hampton, NY 10958<br><br><input type="checkbox"/> Check if this is a new address | 6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:<br>EPA Reg. No. _____<br>Product Name _____ |  |

### Section - II

|  |  |
|--|--|
| <input type="checkbox"/> Amendment - Explain below.                            | <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ |
| <input type="checkbox"/> Resubmission in response to Agency letter dated _____ | <input type="checkbox"/> "Me Too" Application.   |
| <input checked="" type="checkbox"/> Notification - Explain below.              | <input type="checkbox"/> Other - Explain below.  |

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Change "Drum Disposal" to "Container Handling" instructions, in accordance with the Label Review Manual, because product packaging is being changed from one-way nonrefillable drums to refillable, reusable cylinders authorized by the U.S. DOT for transportation of Propylene Oxide.

### Section - III

|  |  |   |                                      |  |  |
|--|--|---|--------------------------------------|--|--|
| 1. Material This Product Will Be Packaged In:  |  |   |                                      | 2. Type of Container   |  |
| Child-Resistant Packaging<br><input type="checkbox"/> Yes*<br><input checked="" type="checkbox"/> No   | Unit Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No | Water Soluble Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No |                                      | <input checked="" type="checkbox"/> Metal  |  |
| * Certification must be submitted  |  | If "Yes" Unit Packaging wgt.  | No. per container                    | <input type="checkbox"/> Plastic   |  |
|  |  | If "Yes" Package wgt.   | No. per container                    | <input type="checkbox"/> Glass   |  |
| 3. Location of Net Contents Information<br><input checked="" type="checkbox"/> Label <input type="checkbox"/> Container  |  | 4. Size(s) Retail Container<br>#375 lbs   |                                      | 5. Location of Label Directions<br><input checked="" type="checkbox"/> On Label<br><input type="checkbox"/> On Labeling accompanying product |  |
| 6. Manner in Which Label is Affixed to Product<br><input checked="" type="checkbox"/> Lithograph<br><input type="checkbox"/> Paper glued<br><input type="checkbox"/> Stenciled |  |   | <input type="checkbox"/> Other _____ |  |  |

### Section - IV

|   |  |   |  |   |  |
|---|--|---|--|---|--|
| 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)   |  |   |  |   |  |
| Name<br>Gary O'Bannon   |  | Title<br>Regulatory Manager                 |  | Telephone No. (Include Area Code)<br>845-326-5698 |  |
| <b>Certification</b><br>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment both under applicable law. |  |   |  |   | 6. Date Application Received (Stamped) |
| 2. Signature<br><i>Joanne K. Cashin</i>   |  | 3. Title<br>Registration Compliance Advisor |  |   |  |
| 4. Typed Name<br>Joanne K. Cashin   |  | 5. Date<br>July 11, 2011                    |  |   |  |



July 11, 2011

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
1200 Pennsylvania Ave., NW  
Washington, D.C. 20460

Re: Notification of Change to Container Handling Instructions  
Product Reg. No.: 47870-1  
Product Name: propylene Oxide

Dear Ms. Joyner;

ABERCO INC. is submitting herewith a Notification of changes to our product label for the above-referenced product. As discussed with Heather Garvie last week, ABERCO is changing our product packaging from one-way disposable drums to refillable, reusable cylinders.

Therefore, as directed, we have changed the section entitled "Drum Disposal" on our current label, to "Container Handling" in accordance with the Agency's Label Review Manual. The new wording, relating to handling of these refillable cylinders, was taken verbatim from the LRM.

Enclosed you will find 5 copies of the corrected label with the new language highlighted on one copy for your convenience. As you will see, changes were also made to other sections, to reflect the change from drums to cylinders. None of these changes affect the directions for actually using Propylene Oxide - they only relate to the packaging. A copy of the current label with the sections that are changing is also enclosed for your convenience.

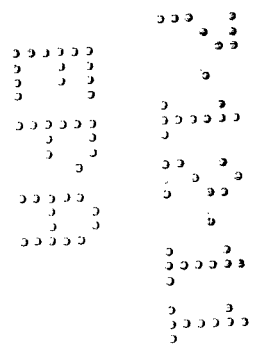
If you have any questions, or need any further information, please don't hesitate to contact me at 845-326-5654, or Gary O'Bannon, our Regulatory Manager.

Sincerely,

*Joanne K. Cashin*

Joanne K. Cashin  
Registration Compliance Manager

Enclosures



CAS 75-56-9

UN1280

**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.

# 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 the label, find someone to explain it to you in detail.)

### FIRST AID

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor 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 for treatment advice.

**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 by mouth to an unconscious person. Call 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-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**HOTLINE NUMBER:** 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 10958  
Phone: 845-326-5611 • Fax: 845-326-5706

EPA Establishment No. 36736-SC-01 EPA Registration No. 47870-1  
CA Registration No. 47870 00001 AA

Net Contents  375 lbs  380lbs  785lbs

### 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:** Vacuum-sealed chambers charged with Propylene Oxide at a concentration greater than 75 lbs/1000 cubic feet must be fitted with equipment specifically designed to reduce propylene oxide emissions by 95 percent. The minimum release height for facilities at which such fumigations occur is 27 feet. For smaller scale fumigations (up to 75 lbs of Propylene Oxide per 1000 cubic feet) no emission control equipment is required provided the total height of the facility is a minimum of 27 feet.

This fumigant is a highly hazardous material and should 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 should 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 gums, 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; inshell 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 fumigant retort at the rate specified below for a given use site. Temperature should not be in excess of 125° F for food uses.

### Inshell and Processed Nutmeats (except peanuts)

Fumigate raw or processed tree nuts at a maximum rate of 2.0 oz aif/ft<sup>3</sup> 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.

### Processed Spices

Fumigate processed spices at a maximum rate of 2.0 oz aif/ft<sup>3</sup> 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.

### Cacao Bean and Cocoa Powder

Fumigate cacao bean and cocoa powder at a maximum rate of 2.0 oz aif/ft<sup>3</sup> 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 aif/ft<sup>3</sup> 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.

### Grape, Raisins; Figs; and Plum, Prunes, 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 matrices):

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 to up to 48 hours. The temperature should 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:

- skull and crossbones symbol
- DANGER/PELIGRO
- Area under fumigation, DO NOT ENTER/NO ENTREE
- Propylene Oxide Fumigant in use
- The date and time of fumigation, and
- name, address, and telephone of the certified applicator supervising the fumigation

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 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.

Vehicle must be placarded with applicable U.S. Department of Transportation warning signs.

### PESTICIDE STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. 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. Store containers in a well-ventilated area.

**SPILL AND LEAK PROCEDURES:** Evacuate everyone from the immediate area of the spill or leak. For entry into affected areas 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 upwind, 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.

**CONTAINER HANDLING:** 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.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or rinsate 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.

### WARRANTY DISCLAIMER AND INHERENT RISKS OF USE

To the extent consistent with applicable law, ABERCO warrants that this product conforms to the chemical 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, 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" cannot be varied by any written or verbal statements or agreements. No employee or sales agent of ABERCO is authorized to vary or exceed the terms of the "Warranty Disclaimer" or this "Limitation of Remedies" in any manner.

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AUG 09 2011

## 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 should 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 130°F may cause bursting. 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 should 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.

## When Using ARC Specialty Products DOT 1A1 drum

1. Keep the propylene oxide DOT 1A1 drum away from heat, light, flames, fires, and spark producing devices. Propylene oxide is extremely flammable, and its vapors will explode if ignited. Store and use out-of-doors, if possible, or in an adequately ventilated area.
2. The propylene oxide DOT 1A1 drum is designed to discharge only liquid propylene oxide. If propylene oxide gas is required, use vaporizing equipment.
3. Use only sparkproof tools with the propylene oxide DOT 1A1 drum. Use only steel or stainless steel piping and connections when using propylene oxide with an inert gas. Never use rubber. Ground all equipment including this container to avoid static sparks. Only explosion-proof electrical equipment should be used where propylene oxide may be present.
4. Keep propylene oxide DOT 1A1 drum upright for discharge (see 2 above). Connect "v" valve marked "VENT" through pressure regulator, and check-valve to source of inert gas, such as nitrogen. The working pressure of this drum is 50 psi gauge. Do not use compressed air. Do not apply heat to this container by any means.
5. Always install check-valve in line from the propylene oxide DOT 1A1 drum to processing equipment to prevent backflow into the drum. Then open valve marked "LIQUID" which is connected to an eductor tube for liquid discharge. This valve has left hand threads. Keep valves closed when not in use.
6. Observe all local laws, regulations, ordinances, and insurance regulations covering the storage and use of flammable material.
7. When empty, the propylene oxide DOT 1A1 drum should be returned to original shipping point with a nitrogen pressure of 50 psi gauge at 70°F or equivalent ambient temperature. The DOT 1A1 drum is the property of ARC Specialty Products, Balchem Corporation.

## PRECAUTIONARY STATEMENTS HAZARDOUS TO HUMANS & DOMESTIC ANIMALS

### DANGER

Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear protective eyewear such as full face shield and vapor proof goggles when opening drums or handling product. Avoid touching gloves or hands to eyes after handling until possible residues are washed off of hands. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

If the concentration of propylene oxide in the workroom or area is measured to be 10 ppm or greater at anytime or greater than 2 ppm as an 8-hour time weighted average, 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/m<sup>3</sup>) 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 P/EVAL 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:  
Long-sleeved shirt and long pants;

- Chemical-resistant gloves made of any waterproof materials;
- Chemical-resistant footwear plus socks;
- Chemical resistant apron;
- Face-sealing goggles, and;
- Full-face shield, unless a respirator that covers the entire face is worn.

**Respirator Requirements:** Before 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) 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 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 ESU 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 below 10 ppm ceiling 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 at or below 2 ppm as an 8-hour time weighted average and the air concentration is lower than 10 ppm using a direct-read device.

## 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.

5045