

68387-8

12/15/2009

1 of 6



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Ms Jane C. Elckhoff
Agent for Cytec Industries
C/O ToXcel
PO BOX 363
Gainesville, VA 20156

DEC 15 2009

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4 and 98-10
Storage and disposal update and other changes (**General Label Change**)

Dear Registrant:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 and 98-10 dated October 29, 2009 for:

EPA Registration 68387-8 VAPORPH3OS® Phosphine Fumigant

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and 98-10 and finds that the label change(s) requested falls within the scope of PRN-2007-4 and 98-10. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Banza Djapao of my staff at 703-305-7269.

Sincerely,

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

	United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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Application for Pesticide – Section 1

1. Company/Product Number 68387-8	2. EPA Product Manager Eagle	3. Proposed Classification <input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted
4. Company/Product (Name) Cytec Industries/VAPORPH ₃ OS [®] Phosphine Fumigant	PM# 01	
5. Name And Address Of Applicant (Include ZIP Code) Cytec Industries Inc. 5 Garrett Mountain Plaza Woodland Park, NJ 07424 <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: EPA Reg. No. _____ Product Name _____	

Section II

<input type="checkbox"/> Amendment – Explain below.	<input type="checkbox"/> Final Printed labels in response to NOTIFICATION 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.

DEC 15 2009

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

Notification of label change per PR Notice 2007-4 and PR Notice 98-10. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156 (container and disposal regs), as well as PR Notice 98-10 and the requirements of EPA's regulation at 40 CFR§152.122 (address change). No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, 156.156 and 152.122, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section III

1. Material This Product Will Be Packaged In:			
Child Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" No. per Unit Packaging wgt. Container	If "Yes" No. per Unit Packaging wgt. Container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(S) Retail Container 39.7 (18 kg) net wt	5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithographed <input checked="" type="checkbox"/> Paper glued <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 Alan C. Katz	Title Authorized Agent for Cytec Industries Inc.	Telephone No. (Include Area Code) 703.335.5670
Certification 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 or both under applicable law.		6. Date Application Received
2. Signature 	3. Title Authorized Agent for Cytec Industries, Inc.	
4. Typed Name Alan C. Katz (toXcel LLC)	5. Date December 9, 2009	

3096

toXcel

Toxicology & Regulatory Affairs
P.O. Box 363
Gainesville, VA 20156
USA

Phone: (703) 335-5670

Fax: (703) 310-6950

October 29, 2009

Document Processing Desk (NOTIF or AMEND)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency Room S-4900,
One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

RE: Notification by Cytec Industries Inc. of changes to the VAPORPH₃OS Phosphine Fumigant label (EPA Reg. No. 68387-8) to meet the new "Standards for Pesticide Containers and Containment"

Cytec Industries Inc. ("Cytec") is submitting an amended label for VAPORPH₃OS Phosphine Fumigant (EPA Reg. No. 68387-8) that meets the revised "Standards for Pesticide Containers and Containment" that were published in the *Federal Register* on August 16, 2006 and amended in an October 29, 2008, final rule. The revisions to the enclosed label include the exact wording specified in the regulation, and therefore, are permitted to be made by notification. In addition to the container regulation revisions, the address for Cytec's headquarters office has been updated. The name of the city changed from "West Paterson" to "Woodland Park," but the street address, state and zip code remain the same. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. Advice provided by Jeanne Kasai (US EPA) during the revision process is attached, as suggested by her.

As instructed in PR Notice 2007-4, we have enclosed one copy of the label with changes clearly marked so that they can be photocopied. Strike-through indicates removed wording and grey shading indicates new wording. A final copy of the revised label is also included. A completed Application for Registration (EPA Form 8570-1) is attached to the labels. Please do not hesitate to contact me if you have questions about the revised label.

Best regards,


Jane C. Eickhoff

Representative of Cytec Industries Inc.

cc: K. Guzowski
Attachments

Handwritten marks and symbols, possibly a signature or initials, located in the bottom right corner of the page.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER/PELIGRO – POISON**

May be fatal if inhaled. The liquid may cause burns. Avoid contact with skin and eyes and avoid breathing vapor. Keep animals, children and unauthorized persons away from area under treatment, until area is shown to be free from phosphine gas, as indicated by a gas-measuring device. Working in an area with undetermined concentrations requires a self-contained breathing apparatus (SCBA) with full face-piece operated in a pressure-demand mode. Do not get in eyes, in nose, on skin or on clothing. Do not eat, drink or smoke while handling VAPORPH₃OS[®] Phosphine Fumigant. Phosphine gas may deaden the sense of smell. Do not depend solely on the odor to detect VAPORPH₃OS[®] Phosphine Fumigant. Observe proper application, aeration, re-entry and dosing procedures specified in the Application Manual to prevent overexposure

NOTE TO PHYSICIAN – THIS IS PHOSPHINE

Mild exposure by inhalation of VAPORPH₃OS[®] Phosphine Fumigant causes malaise (indefinite feeling of sickness), ringing of ears, fatigue, nausea and pressure in chest, which are relieved by removal to fresh air. Moderate poisoning causes weakness, vomiting, epigastric pain (pain just above the stomach), chest pain, diarrhea and dyspnea (difficulty in breathing). Symptoms of severe poisoning may occur within a few hours or up to several days, resulting in pulmonary edema (fluid in lungs) and may lead to dizziness, cyanosis (blue or purple skin color), unconsciousness and death.

In sufficient quantity it affects the liver, kidneys, lungs, nervous system, and circulatory system. Inhalation can cause lung edema (fluid in lungs) and hyperemia (excess of blood in a body part), small perivascular brain hemorrhages and brain edema (fluid in brain). Poisoning may result in (1) pulmonary edema, elevated MB-creatine phosphokinase fraction of cardiac enzymes, cardiac dysrhythmia, (2) elevated serum GOT, LDH and alkaline phosphatase, reduced prothrombin, hemorrhage and jaundice (yellow skin color) and (3) hematuria (blood in urine) and anuria (abnormal or lack of urination). Pathology is characteristic of hypoxia (oxygen deficiency in body tissue). Frequent exposure over a period of days or weeks may cause poisoning. Treatment is symptomatic.

The following measures are suggested for use by the physician in accordance with the physician's own judgment:

1. Exposure of skin to rapidly evaporating liquid may cause cryogenic "burn." Treat the "burn" in a similar manner as a thermal burn.
2. In case of freezing or cryogenic "burns" to eyes by rapidly evaporating liquid, RINSE EYES WITH COOL WATER. Do not rinse eyes with hot or even tepid water.
3. In its milder to moderate forms (symptoms of poisoning may take up to 24 hours to appear), the following is suggested: Complete rest 1-2 days during which the patient must be kept quiet and warm. If the patient suffers from vomiting or increased blood sugar, appropriate solutions should be administered. Treatment with oxygen is recommended, as is the administration of cardiac and circulatory stimulants.
4. In cases of severe poisoning (intensive care unit is recommended):

Where pulmonary edema is observed, steroid therapy should be considered and close medical supervision is recommended. Blood transfusions may be necessary. In case of manifest pulmonary edema, venesection should be performed under vein pressure control. Heart glycosides (I.V.) can be used in case of hemoconcentration. Venesection may result in shock. In the case of progressive edema of the lungs, immediately intubate and remove edema fluid and administer oxygen over-pressure respiration, as well as any measures required for shock treatment. In case of kidney failure, extracorporeal hemodialysis is necessary. There is no specific antidote known for this poisoning.

ENVIRONMENTAL HAZARDS

Phosphine gas is highly toxic to fish and wildlife. Exposure to non-target organisms should be avoided.

PHYSICAL AND CHEMICAL HAZARDS

Phosphine may ignite spontaneously at levels above its lower flammability limit of 1.8% v/v (18,000 ppm). It is important not to exceed this concentration. Phosphine should be blended with carbon dioxide or forced air before using as a fumigant. Ignition of high concentration of phosphine can produce an explosive reaction. Explosions can occur under these conditions and may cause severe personal injury. **Never allow the buildup of phosphine to exceed explosive concentrations.**

Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. Do not drop the container.

Never open cylinder in confined space without a self-contained breathing apparatus (SCBA) with full face-piece and operated in a pressure-demand mode. Never enter a space under fumigation with VAPORPH₃OS[®] Phosphine Fumigant without first checking the gas concentration levels and wearing the appropriate breathing apparatus. These precautions will also reduce the applicator's exposure to gas. Phosphine gas has a low solubility in water and oils and is stable at normal fumigation temperatures. However, it may react with certain metals and cause corrosion, especially at higher temperatures and relative humidities. Metals such as copper, brass and other copper alloys, and precious metals such as gold and silver are susceptible to corrosion. Thus, small electric motors, smoke detectors, brass sprinkler heads, batteries and battery chargers, fork lifts, temperature monitoring systems, switching gears, communication devices, computers, calculators and other electronic or electrical equipment should be protected or removed before fumigation. In most cases all electronic equipment must be removed. Phosphine gas will also react with certain metallic salts and therefore, sensitive items such as photographic film, some inorganic pigments, etc., should not be exposed. Under high vacuum conditions, phosphine gas blended with forced air may cause an explosive hazard. Do not apply VAPORPH₃OS[®] in vacuum chambers.

5066

RESTRICTED USE PESTICIDE

DUE TO ACUTE INHALATION TOXICITY OF HIGHLY TOXIC PHOSPHINE (HYDROGEN PHOSPHIDE, PH₃) GAS

For retail sale to Dealers and Certified Applicators only.

For use by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification. Refer to the directions in the application manual for requirements of the physical presence of a Certified Applicator.

VAPORPH₃OS[®] Phosphine Fumigant

Pure phosphine gas for on-site blending with registered or food grade carbon dioxide or forced air to produce a non-flammable fumigant gas for use in controlling pests in enclosed empty spaces and enclosed space containing stored listed raw agricultural commodities, processed foods, stored tobacco, animal feeds, and nonfood products. Not for use on barges. For details refer to the VAPORPH₃OS[™] Phosphine Fumigant Application Manual.

ACTIVE INGREDIENTS: Phosphine Gas (PH₃).....99.3%
OTHER INGREDIENTS: 0.7%
TOTAL: 100.0%



**KEEP OUT OF REACH OF CHILDREN
DANGER - POISON - PELIGRO**

SEE SIDE PANEL OF LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

PELIGRO AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta se le haya sido explicado ampliamente
(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

FIRST AID

Symptoms of exposure to this product are headache, dizziness, nausea, difficult breathing, vomiting and diarrhea. In all cases of overexposure, get medical attention immediately. Take victim to doctor, hospital or emergency treatment facility.

If Inhaled	<ul style="list-style-type: none"> • 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. • Call a poison control center or doctor for further treatment advice.
If on Skin	<ul style="list-style-type: none"> • May cause frostbite to unprotected skin upon contact with dispensing equipment while gas is discharged rapidly. • Take off contaminated clothing and allow clothes to aerate in ventilated room prior to laundering. • Call a poison control center or doctor for treatment advice.
If in Eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with cool water for 15-20 minutes in case of freezing or cryogenic "burns." Do not rinse eyes with hot or even tepid water. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice. • Never introduce oil or ointment into eyes without medical advice.

HOT LINE NUMBER

Have the Application Manual with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 or 703-527-3887 for emergency medical treatment information.

NOTES TO PHYSICIAN

SEE SIDE PANEL FOR SPECIFIC DETAILED INFORMATION PERTAINING TO TREATMENT OF EXPOSURE TO PHOSPHINE FUMIGANTS

CYTEC Industries Inc. Woodland Park, NJ 07424 USA

Emergency Phone : 1-800/424-9300 or 703/527-3887

EPA Registration No. 68387 - 8

EPA Establishment No. 68387-CAN-1

Net Contents: 39.7 lbs (18.0 kg)

THIS PRODUCT IS ACCOMPANIED BY AN APPROVED APPLICATION MANUAL. READ THE ENTIRE LABEL AND APPLICATION MANUAL BEFORE USE. ALL PARTS OF THE LABEL AND APPLICATION MANUAL ARE EQUALLY IMPORTANT FOR SAFE AND EFFECTIVE USE OF THIS PRODUCT. CONSULT WITH YOUR STATE LEAD PESTICIDE REGULATORY AGENCY TO DETERMINE REGULATORY STATUS, REQUIREMENTS, AND RESTRICTIONS FOR FUMIGATION USE IN THAT STATE. CALL CYTEC INDUSTRIES, INC. (Tel. 905-374-5828) IF YOU HAVE ANY QUESTIONS OR DO NOT UNDERSTAND ANY PART OF THE LABEL OR APPLICATION MANUAL. IF THE PRODUCT LABEL OR APPLICATION MANUAL ARE LOST, CONTACT CYTEC INDUSTRIES INC. TO OBTAIN A REPLACEMENT COPY.

It is a violation of federal law to use this product in a manner inconsistent with its labeling or application manual. VAPORPH₃OS[®] Phosphine Fumigant is a restricted use Pesticide due to the acute inhalation toxicity of phosphine, PH₃ gas. For retail sale to Dealers and Certified Applicators only. For use by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification. Refer to the directions in the application manual for requirements of the physical presence of a Certified Applicator.

VAPORPH₃OS[®] Phosphine Fumigant is pure phosphine gas for use as a fumigant after on-site blending with forced air or with registered or food grade carbon dioxide for the production of non-flammable phosphine fumigant gas, refer to the VAPORPH₃OS[®] Phosphine Fumigant Application Manual for specific pests controlled, detailed directions for use, precautions, and recommendations.

STORAGE AND DISPOSAL

STORAGE INSTRUCTIONS

INDOOR STORAGE

The storage of poison gases in occupied spaces is not recommended. Indoor storage in a separate building with no other occupancy is suitable. The building should be adequately ventilated and equipped with a continuous phosphine monitoring and alarm system that is activated at the TLV of 0.3 ppm. In some jurisdictions, the indoor storage of toxic gases is prohibited.

OUTDOOR STORAGE

It is recommended that both full and used VAPORPH₃OS[®] Phosphine Fumigant cylinders be stored outdoors in a dedicated and properly designed and labeled storage area. The following are recommended for outdoor storage:

- A firm and level surface, preferably reinforced concrete, well drained.
- A secured and locked area.
- Cylinders should never be stored where the temperature will exceed 125 °F (51.7 °C).
- A means of securing all cylinders.
- Away from building ventilation intakes.

SECURING CYLINDERS

Cylinders must be stored in an upright position and protected from falling. Protection against falls can include the use of cylinder pallets with straps, walls and securing chains, or pens constructed from steel handrail or like construction.

DISPOSAL INSTRUCTIONS

Once used, VAPORPH₃OS[®] Phosphine Fumigant cylinders are to be returned only to an authorized distributor or their designated point of return. This applies to all cylinders, regardless of the quantity of material remaining in the cylinder.

CONTAINER HANDLING

Refillable container. Refill this container with phosphine only. Do not reuse this container for any other purpose.

SPILL AND LEAK PROCEDURES

GENERAL

All releases can produce high levels of gas, and therefore, attending personnel must wear a self-contained breathing apparatus (SCBA) or its equivalent when the concentration of phosphine gas is unknown. If the concentration is known, other NIOSH/MSHA approved respiratory protection must be worn.

WHAT TO DO

In the event of an accidental release, evacuate the area immediately. A response into the leak area should only be attempted by trained emergency responders. If it is possible to shut off the source of the leak from a remote area, it should be done. Otherwise, evacuate the area and call for assistance.

WHO TO CALL

CYTEC operates a 24-hour Emergency Response and Incident Management System (ERIM). For emergencies involving spill, leak, fire, exposure or accident call CHEMTREC: 1-800/424-9300. Outside the US or Canada call 703/527-3887.

EMERGENCY RESPONDERS

All emergency responses should be made in level B protection, which includes neoprene, butyl rubber or PVC gloves, Seranex coated Tyvek suit, rubber boots and an air-supplied respirator. Refer to the Application manual for more detailed recommendations for handling, storage, spill and leak procedures.

WARRANTY

Seller warrants that the product conforms to its chemical description and when used according to label directions under normal conditions of use, it is reasonably fit for the purpose stated on the label. Seller makes no other warranty, either expressed or implied, and buyer assumes all risk should the product be used contrary to label instructions.

