

67470-10

12/18/2008

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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

DEC 18 2008

Mr. John Jones
Honeywell
101 Columbia Road
Morristown, NJ 07962-103

SUBJECT: Steriflo
EPA Registration No.: 67470-10
Notification Date: November 14, 2008
EPA Receipt Date: November 20, 2008

Dear Mr. Jones,

This letter acknowledges receipt of your notification under the provisions of FIFRA section 3(c)9 and PR Notice 91-2.

- Update Container Disposal statements per 2007-4
- Delete Non-FIFRA advisory language

General Comments

Based on a review of the submitted materials, the notification to update container disposal statements and delete non-FIFRA advisory language is acceptable and apart of the records on file.

Should you have any questions or comments concerning this letter, please contact Jacqueline McFarlane at (703) 308-6416 or Velma Noble at (703) 308-6233.

Sincerely,
Velma Noble
Velma Noble
Product Manager (31)

CONCURRENCE Laboratory Management Branch I

YMBOL								
JRNAME								
ATE								



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 Honeywell/67470-10	2. EPA Product Manager Velma Noble	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Honeywell/Steriflo	PM# 31	
5. Name and Address of Applicant (Include Zip Code) Honeywell International, Inc. 101 Columbia Road Morristown, NJ 07962-1053 <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 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.)
This notification adds language required by PR Notice 2007-4 and deletes non-FIFRA advisory language. Time and experience show that the non-FIFRA advisory language is no longer required for equipment maintenance. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 C.F.R. Section 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Section 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 C.F.R. Section 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under FIFRA Sections 12 and 14.

Section - III

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

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name John W. Jones	Title Global Leader Product Stewardship	Telephone No. (Include Area Code) (973) 455-4779
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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
(Stamped)

2. Signature 	3. Title Global Leader Product Stewardship
4. Typed Name John W. Jones	5. Date November 14, 2008

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

DANGER! CAUSES EYE AND SKIN BURNS.
HARMFUL IF INHALED. HARMFUL IF SWALLOWED.
MAY CAUSE RESPIRATORY AND NERVOUS SYSTEM
DAMAGE. **DANGER!** CANCER HAZARD AND
REPRODUCTIVE HAZARD.

EFFECTS OF OVEREXPOSURE: May be fatal if
inhaled in high concentrations. May cause irritation of
respiratory tract, chest tightness, headache, nausea,
vomiting, diarrhea, light-headed feeling, dizziness,
weakness, drowsiness, cyanosis, loss of coordination,
convulsions, coma, delayed lung injury (fluid in lungs),
immediate or delayed skin irritation and blisters, allergic
skin reaction.

OTHER POSSIBLE DELAYED HEALTH EFFECTS:

May cause nervous system injury, cataracts, adverse
reproductive effects, chromosomal and mutagenic
changes, and cancer.

PEL: 1PPM-TWA Ethylene Oxide (OSHA 29CFR1910.1047)

Steriflo®

ACTIVE INGREDIENT: ETHYLENE OXIDE (CAS 75-21-8) 10.4%
OTHER INGREDIENT: HEPTAFLUOROPROPANE (CAS 354-33-6) 7.7%
OTHER INGREDIENT: PENTAFLUOROETHANE (CAS 431-89-0) 81.9%
KEEP OUT OF REACH OF CHILDREN 100.0%

DANGER PELIGRO

PRECAUCION AL USUARIO: Si usted no lee Ingles, no use este producto hasta que la
etiqueta la haya sido explicada ampliamente.

Users must follow the requirements of the OSHA occupational exposure standard for
ethylene oxide (29 CFR 1910.1047).

BEFORE USING OR HANDLING THIS PRODUCT YOU MUST ALSO READ AND UNDERSTAND THE
HONEYWELL MATERIAL SAFETY DATA SHEET FOR THIS PRODUCT.

FOR HEALTH CARE FACILITY AND INDUSTRIAL USE ONLY.

DOT/IMO Shipping Name: Liquefied Gas, N.O.S., (Ethylene Oxide, Pentafluoroethane,
Heptafluoropropane)

US DOT Hazard Class: 2.2 Honeywell

US DOT ID Number: UN 3163 DOT-SP 10184 101 Columbia Rd., Morristown, NJ 07962-1053

EPA Registration No. 67470-10 EPA Establishment No. **67470-AZ-001**

BATCH - DO NOT REMOVE THIS LABEL MADE IN USA STB-SF-US (11/08)

EL: 5PPM-excursion limit, 15 minutes.

ODOR: Ether-like at high concentrations. Exposure to toxic
levels may occur without warning or detection by the user.

PRECAUTIONS: Do not breathe vapor. Do not swallow.

Do not get in eyes, on skin, on clothing. Store and use
with adequate ventilation in accordance with 29 CFR
1910.1047

PHYSICAL AND CHEMICAL HAZARDS

Contents under pressure. Use only in closed system. No
part of the container may be exposed above 125°F (52°C).
Close valve when not in use and when empty.

LEAK: Evacuate area and keep personnel upwind. Use self-contained
breathing apparatus and protective clothing, and
shut off leak if without risk.

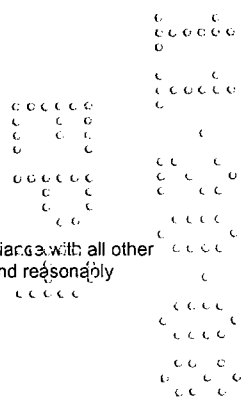
FIRE: Move container away from fire if without risk. Use
water spray or fog nozzle to keep container cool.

Personal Protective Equipment

Some materials that are chemical resistant to this product are butyl rubber

All handlers must wear at a minimum:

- > Long-sleeved shirt and long pants,
- > Shoes plus socks,
- > Chemical-resistant gloves, and
- > The employer shall provide a respirator that is adequate to protect the health of the employee and ensure compliance with all other OSHA statutory and regulatory requirements (including 29CFR 1910.1047 and 29CFR 1910.134), under routine and reasonably foreseeable emergency situations.



When handlers could have eye or skin contact with ethylene oxide or ethylene oxide solutions such as during maintenance and repair, vessel cleaning, or cleaning up spills, they must wear:

- > Chemical-resistant attire, such as an apron, protective suit, or footwear that protects the area of the body that might contact ethylene oxide or ethylene oxide solutions, and
- > Face-sealing goggles, a full-face shield, or a full-face respirator.

1. Follow the respirator manufacturer's user's instructions for changing canisters.
2. Respirators must be fit-tested and fit-checked using a program that conforms to OSHA's requirements (see 29CFR Part 1910.134).
3. Respirator users must be trained using a program that confirms to OSHA's requirements (see 29CFR Part 1910.134).
4. Respirator users must be examined by a qualified medical practitioner to ensure physical ability to safely wear the style of respirator to be worn. A qualified medical practitioner is a physician or other licensed health care professional (PLHCP) who will evaluate the ability of a worker to wear a respirator. The initial evaluation consists of a questionnaire that asks about medical conditions (such as a heart condition) that would be problematic for respirator use. If concerns are identified, then additional evaluations, such as a physical exam, might be necessary. The initial evaluation must be done before respirator use begins. It does not need to be repeated unless the health status or respirator use conditions change (see 29CFR Part 1910.134).

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

ENVIRONMENTAL HAZARDS

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.

FIRST AID

IN ALL CASES OF OVEREXPOSURE, GET MEDICAL ATTENTION IMMEDIATELY. CALL THE POISON CONTROL CENTER OR DOCTOR FOR TREATMENT ADVICE.

IF INHALED: Remove exposed person to fresh air, keep warm. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call the Poison Control Center or doctor for advice even if no symptoms are present. Keep under medical observation. Symptoms may be delayed.

IF IN EYES: Hold eyelids open and rinse slowly and gently with water for 15-20 minutes. Call the Poison Control Center or doctor for advice.

IF ON SKIN OR CLOTHING: Immediately rinse with plenty of water for 15-20 minutes while removing contaminated clothing and shoes. Call the Poison Control Center or doctor for advice. Aerate, wash or clean contaminated clothing and discard leather goods.

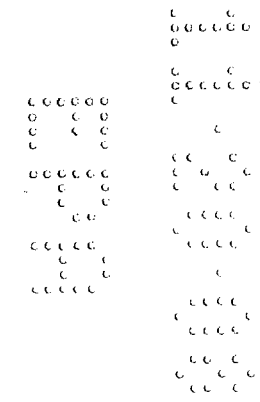
IF SWALLOWED: Call the Poison Control Center or doctor for advice. Give at least two glasses of water. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: REFER TO SECTION IV, FIRST AID MEASURES OF THE MSDSs FOR EACH INGREDIENT. To obtain MSDSs, call 1-800-522-8001.

Skin exposure to Steriflo will commonly result in skin irritation with extensive blister formation. At high concentrations severe conjunctivitis can occur. Irritation of the respiratory tract may occur, but without lung edema. Symptoms of systemic intoxication are headache, nausea, vomiting, incoordination, and cardiac irregularities. Treatment is symptomatic.

IN CASE OF EMERGENCY CALL:

1-800-498-5701. Have a copy of the label or the MSDS when calling a poison control center or doctor or going for treatment.



DO NOT REMOVE TAG

Steriflo®

STERILANT-FUMIGANT GAS

DANGER! LIQUID AND GAS UNDER PRESSURE.

HARMFUL IF INHALED.

DIRECTIONS FOR USE

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

NOTE TO USER: When used in the workplace, it is the employer's responsibility to ensure that all personnel are familiar with and adhere to 29 CFR 1910.1047. Steriflo is a highly hazardous material and must be used only by personnel trained in its proper use. All persons working with Steriflo must have knowledge of the hazards of this chemical mixture and must be trained in the proper use of required respirator equipment, monitoring and detection devices, and in the implementation of emergency procedures.

To be used only by persons experienced in Steriflo sterilization and fumigation, or by persons under direct supervision of persons who are experienced in Steriflo sterilization and fumigation. Use only in accordance with the directions and the safety precautions listed on the label and this tag. See current Honeywell Material Safety Data Sheet for Steriflo.

STERILIZATION AND FUMIGATION

Steriflo must be used only to sterilize medical and laboratory items, pharmaceuticals, aseptic packaging, and reduce microbial load on cosmetics. Items to be sterilized must be thoroughly cleaned of soil before being placed in any type of sterilizer.

A. Steriflo must be used only in facilities that meet the requirements of 29 CFR 1910.1047 in non-portable (commercial) vacuum or gas-tight chambers designed for use with 10.4% ethylene oxide, 7.7% heptafluoropropane and 81.9% pentafluoroethane. Steriflo may be used only by persons who have been trained in accordance with 29 CFR 1910.1047. In hospitals and healthcare facilities, sterilization/fumigation with Steriflo must be performed only in vacuum or gas-tight chambers designed for use with Steriflo that have FDA clearance and in accordance with directions supplied by the sterilizer manufacturer. After February 28, 2010, a single chamber process is required for ethylene oxide treatment (sterilization and aeration are to occur in the same chamber) in hospitals and healthcare facilities.

NOTE: It is a violation of Federal Law to use Steriflo Sterilant/Fumigant Gas for the fumigation of beehives, airplanes, trains, buses, ships, trucks, trailers, warehouses, or other similar spaces.

In contract sterilization facilities, including facilities, treating medical equipment and supplies, library/museum artifacts and cosmetics the following requirements must be followed:

Sterilization/fumigation with Steriflo must be performed only in vacuum or gas-tight chambers designed for use with Steriflo.

Safety and awareness training is required for all employees including office staff. Information must be provided to all employees in the facility at the time of initial assignment and annually thereafter.

The safety training must include, at a minimum, the following information:

1. the most recent monitored ambient levels of ethylene oxide in the facility;
2. the potential health effects from the levels of ethylene oxide in the facility;
3. the emergency response plan and how to respond in an emergency;
4. the availability of the Material Safety Data Sheet and other materials related to the health hazards of exposure to ethylene oxide.

In order to reduce ambient levels of ethylene oxide, lengthy facility aeration is encouraged. It can reduce potential long-term risks to employees not directly involved in the ethylene oxide applications.

Air monitoring should include the entire facility including office space, break areas, and loading/unloading areas.

B. Steriflo cycle parameters depend on several sterilizing/fumigating variable factors: preconditioning (if any); exposure time; chamber air concentration; ethylene oxide concentration; chamber temperature; humidity level; types and quantities of items to be sterilized/fumigated; packaging; load configuration in the

chamber; microbial challenge method; desired level of sterility assurance; and the desired performance of the sterilized; fumigated product and package.

C. The following is a list of ranges for the critical variables which must be in proper relationship for Steriflo to be an effective sterilizing/fumigating agent. This information should be considered general, and not as a replacement for detailed information issued by manufacturers.

TEMPERATURES - 70°F TO 150°F.

PRE-VACUUM - typically 10 to 25 inches of mercury. Use vacuums compatible with the products and packages to be sterilized/fumigated.

MOISTURE - relative humidity of 33% to 80%

GAS CONCENTRATION - 250 mg/L to 1500 mg/L milligrams of ethylene oxide per liter of chamber volume.

EXPOSURE TIME - 45 minutes to 20 hours.

POST-VACUUMS - Steriflo is removed from the chamber and vented to an appropriate ethylene oxide capture or destruction device.

AERATION - aerate sterilized/fumigated materials before use. Do not allow any person to enter the chamber or aeration area if such entry will result in exposures to ethylene oxide above the levels established in 29 CFR 1910.1047.

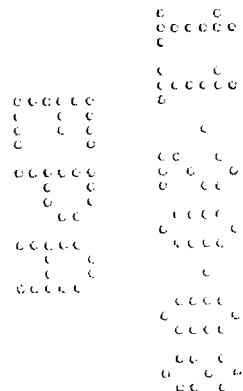
Cycle parameters and post-cycle aeration parameters (temperature, time, air flow-rate) can affect residue levels. The user must determine that the parameters chosen result in goods which comply with applicable Federal and State residue requirements.

For residual limits of ethylene oxide on drug products and medical products see 21 CFR 201.1 sub-section (d).

D. The sterilization/fumigation cycle parameters should be those prescribed by the sterilizer equipment manufacturer. If other cycle parameters are used, the safety and efficacy of the alternate cycle parameters must be validated and are the responsibility of the user.

E. Employers in facilities that use ethylene oxide must comply with all of the requirements for ethylene oxide use specified in 29 CFR 1910.1047.

101 Columbia Road
Morristown, NJ 07962-1053
EPA Registration No. 67470-10



GENERAL INSTRUCTIONS

1. Always check cylinder valves and relief valves for leaks before moving cylinder into your facility.
2. This cylinder is equipped with an eductor tube for liquid delivery. Use vaporizing equipment to convert the liquid into a gas.
3. The approximate vapor pressure exerted by this gas mixture will be 50 psig (5.50 kg/cm²) at 70°F (21.1°C) while liquid is present. Vapor pressure will be higher if temperature is above 70°F (21.1°C); lower if temperature is below 70°F (21.1°C).
4. Cylinder must be in an upright position when discharging. Cylinder must be secured to prevent falling over.
5. Discharge valve outlet is provided with a CGA 510 connection which has left-hand threads.
6. Remove protective valve plug and make sure valve threads are undamaged. The connection to the cylinder valve should be brass CGA 510 connector. Use of other metals could cause damage to the brass cylinder valve. Do not attach an ordinary pipe fitting to this valve.
7. All other piping and fittings should be steel or stainless steel, capable of withstanding the pressure to be encountered. Do not use rubber or plastic materials. Install relief devices where liquid can be trapped between valves.
8. Install check valves in the discharge line from this cylinder to processing equipment to prevent back-flow into cylinder.
9. To open cylinder valve, turn handwheel counterclockwise. Do not use a wrench or other leverage device to open or close cylinder valve.
10. Use with adequate general and local ventilation.
11. Determine the quantity of product withdrawn from this cylinder by using an appropriate scale.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store according to instructions provided on label and this tag. Store away from heat in an area with adequate ventilation. Do not store in direct sunlight. To minimize polymer growth, Steriflo must not be stored in any place where the temperature consistently exceeds 100°F. To control ethylene oxide polymer growth, use all sterilant gas on a first-in, first-out basis.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray, or mixture of rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Refillable container. Refill this container only with a non-flammable ethylene oxide mix. Do not reuse this container for any other purpose. When empty, return to supplier only.

Before returning to supplier:

- A. Replace valve plug tightly in valve outlet. If valve plug is not available, contact supplier.
- B. Check container valve for leaks prior to shipment. If leaks are detected contact supplier.

PATENT INFORMATION

This product and its use for sterilization are protected by US Patent #s 5039485, 5342579, 6432357, 5976554. The purchase of this product gives you a license under the patent for single use only, and subsequent use constitutes patent infringement. Any re-use of this product, or unauthorized reconditioning (which may not meet stringent requirements), is potentially unsafe and a violation of the license terms granted to you upon sale of this product.

