US ENVIRONMENTAL PROTECTION AGENCY	EPA REGISTRATION NO.	DATE OF ISSUANCE
OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460	TERM OF ISSUANCE	
NOTICE OF PESTICIDE: REGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	NAME OF PESTICIDE PRODUCT THE Pruit Focter/Corpressed Dalian Lighton	
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		~_·
Chowden Enterprises, Inc. F.G. FOX 761 Freshc, CA - \$3712	Т	
L	4	
NOTE: Changes in labeling formula differing in substance f submitted to and accepted by the Registration Division prio product always refer to the above U.S. EPA registration num	r to use of the label in comme	
On the basis of information furnished by the registrant, the the Federal Insecticide, Fungicide, and Rodenticide Act.	above named pesticide is here	eby Registered/Reregistered unde
A copy of the labeling accepted in connection with this Re	gistration/Reregistration is re	turned herewith.
health and the environment, the Administrator, on his motio icide in accordance with the Act. The acceptance of any na Act is not to be construed as giving the registrant a right to by others. $f_{1} = \frac{1}{2} + 1$	ame in connection with the reg o exclusive use of the name of	istration of a product under this to its use if it has been covered
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1. It it/it shi what is it rend trainer of your product there when the contry rectines all rejust orth.	THE SECTOR SCALE	CallEL Section 4
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C. Date the Lately scale of for efficient:	unders die die die Berseinen. Geb	; t: .ict
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ATTACHMENT IS APPLICABLE	BE	ST AVAILABLE COPY

EPA Form 8570-6 (Rev. 5-76)

PREVIOUS EDITION MAY BE USED UNTIL SUPPLY IS EXHAUSTED. +US GPO: 1992 312-018/00303

b. On the left panel, under the word "DANGER", insert the statement:

Pressurized Liquid Gas

c. Revise "Physical or Chemical Hazards" to read:

Physical and Chemical Hazards

d. Revise the first sentence un "Pysical and Chemical Hazards" to read:

Sulfur Dioxide is a Non-Flammable, Whitish Colored Gas of Pungent Odor

e. Add the sentence "Sulfur dioxide can be sensed by taste at low level concentrations" to the end of the "Physical and Chemical Hazards" paragraph.

4. Make the following changes to the supplemental product labeling associated with this pesticide registration before you release the product for shipment:

- a. On page 2, insert the sentence "Wear protective clothing, gloves and boots when handling this pesticide product" at the beginning of the "Protective Clothing" paragraph.
- b. On page 3, revise sentence #1 under the "Placarding of Fumigated Warehouse Areas" instructions to read:

The signal word DANGER/PELIGRO in 2" letters.

- c. The storage procedures detailed on page 4 for this particular product are acceptable.
- d. On page 8, under the heading "Truck Fumigation" insert the sentence: Trailers fumigated with SO<sub>2</sub> must be held for 24 hours before releasing for shipment" at the end of the paragra

5. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

Ruth G. Douglas

Product Manager (32) Antimicrobial Program Branch Registration Division (h7565C)

Fnclosures

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PRECAUTIONARY STATEMENTS

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HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER insett

RAZABOUS VARON AND ALGOR A Persons with a history of respiratory problems should avoid

exposure to the product.

#### ENVIRONMENTAL HAZARDS

This product is taking to fish and wildlife. Do not spill tr empty into streams, ponds or any other body of water. Do not containate water or wetlands by cleaning of equipment, disposal of wastes, or direct application. instri

#### PHYSICAL OR CHEMICAL HAZARDS

SCH MON-PLANMABLE, ME LANGLAN COLORAL PO 4 DWASH OCOL. COPROSIVE IN PRESENCE OF WATER. DO NOT SPRAY WATER ON ANY LEARING CONTAINER. WATER WILL MAKE PRODUCT CORRUSIVE AND MAY INCREASE VENTING.

7 502 cante and by last at 2mi and ionandiations.

#### STORAGE AND DISPOSAL

STORMAE AND DISPOSAL Storage. Store in a locked, dry, level, well-ventilated area at normal room temperature. Post as a pesticide storage area. Do not contaminate water, food, or feed by storage or disposal. Do not store near flammable material near the .nlet of a ventilating or air conditioning unit, mar any source of direct heat or in a subsurface location. Store cylinders upright, secured to a rack well to prevent tipping. Cylinders should not be subjected to rough hending or mechanical shock such as dropping, busping, dragging, or sliding. Do not use rope slings, hoose, longs or similar devices to unload cylinders. Transport cylinders using head truck, fork truck or other device to which the cylinder can be firmly secured.

To nor remove valve protection bonnet and safety cap until immediately before usa. Replace safety cap and valve protection bonnet when cylinder is not in use.

when cylinder is empty, close valve before returning to supplier. Only the registrant is authorised to refill cylinders. Do not use cylinders for any other purpose.

Disposal Pesticide westus are conic improper disposal of reseas pesticide, spray withing, un vinaste 18 & vidistion of reseal law off tisse can es connot a disposed of by use according to label instructions, controt your State Pesticide on Environmental Control Agency, or by Hazardous Weste representative at the nearest EAR Regional Office for guidance. Petion evolve the nearest EAR Regional Office for guidance. Petion evolve displayers to Snowder Enterprises, into incation from which shipment was eaded. Close to jinde: is the the state of the space with head tight. Disconnect lines ferion evolve and no pattal tylinders only effer consisting S wide Enterprises, inc. for proper shipping instructione

# THE FRUIT DOCTOR

COMPRESSED SULFUR DIOXIDE

ACTIVE INGREDIENT		BY VEIGHT
Sulfur Dioxide		100 005
	TOTAL	100 00%

#### 005 002 TOTAL

### KEEP OUT OF REACH OF CHILDREN DANGER - PELIGRO

HARMFUL IF SWALLOWED. DO NOT SWALLOW OR INHALE See Additional precautions on side panel

PRACTICAL TREATMENT: (Fint Aid)

In all cases of overexposure, ger medical attention immediately. Take person to a doctor or emergency treatment facility.

IF INNALED: Pemove exposed person to fresh air sway from contaminated area.

If breathing has stopped, give artificial respiration inmediately. Do not give anything by worth to an inconscious person. Seek we'rical attention immediately. Trained personnal should administer caygen at soon as possible.

If breatring has <u>res</u> stopped, position person in cheir or have person lie down with head and trunk elevated to  $45 \cdot 60^{\circ}$  position. Encourage slow, deep, regular breathing, prolonging expiration. Trained personnel absuld administer crysen as soon as possible. Keep person warm and at rest. Seek medical attention immediately.

IF ON SKIM: Inmediately flush contaminated skin with copious amounts of running water for at least 15 minutes. Continue as required to control burning sensation. Perove clothes while in shower to ensure irrigation of all contaminated skin. DO MOT apply any chemicals or contaminated skin. Seek reducal attention immediately. IF ON SLIP:

IF IN ETES: Hold eyelids open and flush with a steady, gentle tepid stream of water for at least 15 winntes. Completely flush all eye and 113 tisks. Do not apply any chemical or informent to the eyes. Seek medical stantion immediately. If physician not readily available continue to flush eyes with tepid water for an additional 15 minutes.

IF SWALLOWED (LIQUID SULTWE DIGEIDE): DO NOT give enything by mouth to an uncompations or convulsing person Give person 1-2 glasses of elik or water to dilute DO NOT induce vomiting. Seer medical attention immediately.

EPA #81 80 11.95

PRECAUCION AL ISUARICE Di usted no lee ingles, no use este producto nasta que la etiqueta le taya sido explicado ampliamento

Manufactured for Snowden Enterprises, Inc. P.O. Box 751 Fresno, California 93712

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COMD 1 Snowden Enterprise consists of the ingred for the purpose stated with the directions un-other than an officer authorization must varranty, guarantee or d

 Because the time, j conditions and normal storage are beyond Snow limited to replacemen prize in no event shi price In no event and consequential damages.



Hazardous liquid and vapor under pressure. Inhalation may be fatal or cause serious acute illness. Prolonged or repeated exposure may cause impaired lung function. Do not breathe vapor. Liquid or excessive vapor can cause serious skin or eye injury. Do not get liquid on skin, in eyes or on clothing.

Sulfur dioxide is an eye, nose, and throat irritant even at low levels. If tearing or upper respiratory tract irritation symptoms occur, leave fumigation area jmmediately.

It is recommended that persons with a history of respiratory problems should not be exposed to sulfur dioxide. Medical assessments of applicators and other persons who will be regularly exposed to sulfur dioxide should be conducted prior to employment and at 1 - 2 year intervals.

## STATEMENT OF PRACTICAL TREATMENT

In all cases of overexposure, get medical attention immediately. Take person to a doctor or emergency treatment facility.

IF INHALED: Remove exposed person to fresh air away from contaminated area.

If breathing has stopped, give artificial respiration immediately. Do not give anything by mouth to an urconscious person. Seek medical attention immediately. Trained personnel should administer oxygen as soon as possible.

If breathing has <u>not</u> stopped, position person in chair or have person lie down with head and trunk elevated to a  $45-60^{\circ}$ position. Trained personnel should administer oxygen as soon as possible. Keep person warm and at rest. Seek medical attention immediately.

IF ON SKIN: Immediately flush contaminated skin; with copious amounts of running water for at least 15 minutes:, Continue as required to control burning sensation. Remove clothes while in shower to ensure irrigation of all contaminated skin. DO NOT

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apply any chemicals or ointments/lotions to damaged skin. Seek medical attention immediately.

IF IN EYES: Hold eyelids open and flush with a steady, gentle, tepid stream of water for at least 15 minutes. Completely flush all eye and lid tissue. Do not apply any chemical or ointment to the eyes. Seek medical attention immediately. If a physician is not readily available, continue to flush eyes with tepid water for an additional 15 minutes.

IF SWALLOWED (LIQUID SULFUR DIOXIDE): DO NOT give anything by mouth to an unconscious or convulsing person. Give person 1-2 glasses of milk or water to dilute. DO NOT induce vomiting. Seek medical attention immediately.

## DIRECTIONS FOR USE

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

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

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

When used for fumigation of enclosed spaces (e.g., warehouses, cold storage rooms, truc's, vans, boxcars, and other transport vehicles), it is important to follow requirements for applying Category I materials. It is the registrants recommendation that two persons trained in the use of this product be present at all times during introduction of the fumigant through the aeration period.

Wan protocker darking, glands than in andling the baduct, <u>PROTECTIVE CLOTHING</u> If braided hoses are in place and connections have all been checked, wear a full face mask when making gas applications.

If using non-braided hosing, wear full-body clothing impervious to sulfur dioxide, and use gloves and boots that are impervious to sulfur dioxide. Wear goggles and SO<sub>2</sub> NIOSH/MSHA approved respirator when making SO<sub>2</sub> gas applications. Concect tenses should not be worn.

RESPIRATORY PROTECTION - If the concentration of sulfur dioxide in the worker area, as measured by a pump and appropriate detector tubes, does not exceed 2.0 ppm, no respiratory protection is required. Examples of detectors are

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Draeger handpump and appropriate detector tube, Kitagawa or Sensidyne syringe type samplers with appropriate detector. The manufacturer's instructions provided with the measuring device should always be followed for the detector's correct use.

If the 2.0 ppm concentration is exceeded at any time, all persons working in the fumigation area must wear a NIOSH/MSHA approved full face respirator. This type mask may be used for short exposures of very limited durations, but user must be aware of possible overloading in unmeasured concentrations of  $SO_2$ . A NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air supplied SCBA respirator should always be available for emergencies.

Placarding Of Fumigated Warehouse Areas

Before fumigation, the applicator must placard or post all entrances to the fumigated area with signs bearing the following statements in English and Spanish:

- 1. The signal word DANGER/PELIGRO, in "ullus.
- 2. The statement, "Area under fumigation, DO NOT ENTER/ NO ENTRE.
- 3. The date and time of fumigation.
- 4. Name of fumigant used.
- 5. Name, address, and telephone number of the applicator.

Any person who transfers a treated commodity to another site without aeration must ensure that the new site is placarded until the air around the commodity is below the threshold concentration (2.0 ppm).

Remove placards when the concentration of sulfur dioxide in the treated site is below 2.0 ppm as determined by use of a direct detection device.

Truck, Van, Railcar Fumigation

The applicator must show on the manifest accompanying the load that the trailer has been fumigated with SO<sub>2</sub>. The statement on the manifest must show the following:

- 1. Trailer fumigated with SO<sub>2</sub>.
- 2. The date and time of fumigation.
- 3. Name of fumigant used.

Aeration And Re-entry

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After fumigation, treated areas must be aerated until the level of sulfur dioxide is below 2.0 ppm as determined by use of a direct detection device (such as Draeger hand pump and appropriate detector tube or Kitagawa or Sensidyne syringe



detection device or an equivalent device). Do not allow entry into the treated area by any person before this time unless provided with a respiratory protection device (SCBA or combination air-supplied/SCBA respirator).

Storage, Handling, and Disposal

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Storage - Store in a secure location properly labeled for Category I pesticides. Before use, locate the bottle labeled for the room to be fumigated which will show the room number and weight of SO<sub>2</sub> in the container, move this container to the room matched to the container for fumigation. Do not remove bonnet or safety cap protecting valve before use. Replace bonnet or safety cap when not in use. Do not contaminate water, food, or feed by storage or disposal. Do not store near flammable material, near the inlet of a ventilating or air conditioning unit, near any source of direct heat, nor in a subsurface location.

Store cylinders upright, secured to a rack or wall or placed in specially designed cases to prevent tipping. Cylinders should not be subjected to rough handling or mechanical shock such as dropping, bumping, dragging, or sliding. Do not use rope slings, hooks, tongs, or similar devices to unload cylinders.

When cylinder is empty after use, close valve by turning to the right until tight, disconnect lines and replace protection bonnet before returning to supplier. Only Snowden Enterprises, Inc. is authorized to refill cylinders. Do not use cylinders for any other purpose.

Disposal - Pesticide wastes are toxic. 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 or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Return empty cylinders pre-paid to Snowden Enterprises, Inc.'s location from which shipment was made. Return empty and/or partial cylinders only after consulting Snowden Enterprises, Inc., for proper shipping instructions.

Spill and Leak Procedures - Evacuate immediate area of spill or leak. Use a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air supplied/SCBA respirator for entry into affected area to correct problem. Move leaking or damaged cylinders outdoors or to an isolated location, observing strict safety precautions. Work upwind if possible. Allow spill to evaporate. Do not permit entry into spill area by unprotected persons until concentration of sulfur dioxide is determined to be less than 2.0 ppm as determined by use of a direct detection device.



#### COMMODITY FUMIGATION DIRECTIONS

Follow all safety procedures specified on the label and in this technical brochure.

This product may be applied to the commodity in enclosed stationary spaces (fumigation, pre-cooling, or cold storage rooms). Applications may be made to the commodity in the following transport vehicles: trucks, vans, trailers, and railcars.

Do not apply/aerate in a manner to allow drift onto areas occupied by unprotected humans or beneficial animals. Do not release fumigant into occupied work area.

Do not apply so that liquid sulfur dioxide will come in contact with the fruit. Liquid sulfur dioxide on the fruit will cause bleaching of grapes. Enough fans should be operating in the fumigation space to volatilize all of the liquid sulfur dioxide and provide a uniform concentration throughout the room. It is recommended that an air volume of at least 0.5 times the volume of the fumigated space should be moved by the operating fans during each minute of gassing.

For the application, load the commodity to be fumigated into the treatment space. The lug boxes should be oriented such that the openings in each box are aligned with openings in the other boxes to promote air flow through the fruit in the boxes. Pallets of fruit should be stacked to promote air flow between them. Turn on circulating fans, close all vents, exhaust ports, and vents into the space. Vaporize the liquid sulfur dioxide by releasing the liquid SO<sub>2</sub> into the house hose system used for SO<sub>2</sub>. The hoses should be ducted into open spaces where air movement is unrestricted. If spraying in front of blower or fan equipment, be sure none is splashed onto the equipment or severe corrosion will result.

#### PROPOSED USE DIRECTIONS

# Direction For Use

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

#### GRAPES

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For post-harvest use only on grapes held in cold storage. To suppress spread of grey mold disease caused by <u>Botrytis</u> <u>cinerea</u>. The warehouse operator should work to minimize conditions that promote grey mold such as bruised or crushed berries, excess bunch shatter, etc.

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#### WAREHOUSE STORAGE

APPLICATION TIMING: SO<sub>2</sub> fumigation should occur as soon after harvest as is practical. For fruit to be stored for extended periods, initial gassing should occur on the day of harvest and follow at a 7-10 day interval. For fruit being shipped to market soon after harvest, SO<sub>2</sub> fumigation should be done before shipment, or in transit, if fruit has been gassed three (3) or fewer times. For fruit gassed in the warehouse more than three times, 12 or more hours should be allowed to elapse before shipment.

Seeded varieties may be fumigated on a 7-10 day interval up to 20 times. Most seedless varieties may be fumigated on a 7-10 day interval up to 15 times, but the Thompson Seedless variety should not be fumigated more than 12 times.

RATE OF APPLICATION: It is not a use inconsistent with this label to use less than recommended amounts, but it should be realized that using less than the stated rates may reduce efficacy.

INITIAL FUMIGATION: Use 3/4 to 1% gas concentration based on measured volume of the cold storage room or fumigation chamber.

MAINTENANCE FUMIGATION: Use 1/4 to 1/2% gas concentration based on measured volume of the cold storage room or fumigation chamber.

TREATMENT TIME: Gas treatment should last for 20-30 minutes starting when gas is initially introduced into the room. Fumigation should be terminated by venting the room or scrubbing the recirculated air. It is essential that venting be started at or before 30 minutes after gassing initiation or excess residue may result. When venting is initiated, vigorous air movement is required to either exhaust the SO2 through a vent or vents on the roof, or through a water scrubber. Venting or scrubbing must draw all SO<sub>2</sub> saturated air from the spaces between the berries within the following 20-30 minutes. This requires complete air movement and air replacement in the room at the rate of at least 0.1 to 0.3 of the cubic volume of the room per minute for a duration of 20-30 minutes. Measurement of exhaust fan capacity should be periodically checked to maintain this or a greater air movement efficiency. If a water scrubber system is used, it is essertial that sufficient scrubbing surface is available to remove the SO2 from the recirculating air to equal the rate of demoval by direct venting.

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APPLICATION - COLD STORAGE ROOM OR FUMIGATION CHAMDER: Obtain from Snowden Enterprises, Inc., or a designated distributor a pre-weighed filled cylinder that has been tilled for a predesignated measured room (the filling weight is based on the room size).

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Connect the bottle to a gassing system that has been previously evaluated and accepted by the chemical manufacturer for the designated room. When everything is ready for fumigation, open the valve and leave it open until the cylinder is empty. Close the valve and uncouple the cylinder from the system. Return the cylinder to Snowden Enterprises, Inc., system.

### HIGH FREQUENCY - LOW DOSAGE TREATMENT - WAREHOUSE

APPLICATION TIMING: SO<sub>2</sub> fumigation should occur as soon after harvest as is practical. For fruit to be stored for extended periods, initial gassing should occur on the day of harvest and follow at a three times per week interval (2 days, 2 days, 3 days). Seedless and seeded varieties may be fumigated on this high frequency, low dosage basis as long as they are in storage.

INITIAL FUMIGATION: Use 3/4 to 1% gas concentration based on the measured volume of the cold storage room.

MAINTENANCE FUMIGATION: Use 200 to 400 ppm gas concentration based on the measured volume of the cold storage room.

TREATMENT TIME: Gas treatment will last until the room concentration is determined by measurement to be below 2.0 ppm. Vigorous air movement is required during gassing and for approximately 30 minutes following gas introduction. No venting is required with this procedure.

APPLICATION - COLD STORAGE ROCM: Obtain from Snowden Enterprises, Inc., or a designated distributor a pre-weighed, filled cylinder that has been filled for a predesignated measured rocm (the filling weight is based on the room size). Connect the bottle to a previously validated gassing system installed in a designated room. When everything is ready for fumigation, open the valve and leave it open until the cylinder is empty. Close the valve and uncouple the cylinder from the system. Return the cylinder to Snowden Enterprises, Inc.

IN-HOUSE FOLLOW-UP PROCEDURE: If you use this method, it is a requirement of this gassing method to examine your fruit for mold growth for the duration of cold storage. Fruit examination should occur at least once weekly.

<u>Small Cylinder</u>

**PROPOSED USE DIRECTIONS** (Right side of panel)

Directions For Use:

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



#### GRAPES

For post-harvest use only on grapes held in cold storage to suppress spread of grey mold caused by <u>Botrytis cinerea</u>.

<u>APPLICATION TIMING:</u> SO<sub>2</sub> fumigation should occur as soon after harvest as is practical. For fruit to be stored for extended periods, initial gassing should occur on the day of harvest and follow at a 7-10 day interval. For fruit being shipped to market soon after ... rvest, SO<sub>2</sub> fumigation can be applied in a truck or railcar if the grapes have been gassed three (3) or fewer times.

Seeded varieties may be fumigated on a 7-10 day interval up to 20 times. Most seedless varieties may be fumigated on a 7-10 day interval up to 15 times, but the Thompson Seedless variety should not be fumigated more than 12 times.

For warehouse use, refer to Technical Information Bulletin.

### TRUCK FUMIGATION

instri: "Junclus furnighted with Sex muscle with for 34 hours before without for subment." Pre-install hose kit in the truck trailer through the drain line at the end of the trailer and under the pallets supporting the fruit. Close the trailer doors, connect the pre-weighed container to the hose end. Turn the cylinder upside down and open the valve; leave in this position 1-2 minutes or until empty. Close valve, disconnect cylinder from the hose, remove hose from drain and return to container case for return to Snowden Enterprises, Inc., system. See directions on container case for additional directions for installing truck fumigation kit.

# RAILCAR FUMIGATION

Pre-install hose kit in the railcar under the pallets supporting the fruit. Close the doors, connect the pre-weighed container to the hose end. Turn the cylinder upside down and open the valve; leave in this position 1-2 minutes or until empty. Close valve, disconnect cylinder from the kit hose, and return cylinder to container case for return to Snowden Enterprises, Inc., system.

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