

# Specimen Label

## POISON

KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE  
OPENING OR USING

# ProFume®

## FUMIGANT

ACTIVE CONSTITUENT: 998 g/kg SULFURYL FLUORIDE

GROUP **8C** INSECTICIDE

For the control of insects and rodents in buildings (commercial and residential), timber, construction materials, furnishings, shipping containers, surface ships, and vehicles (excluding aircraft) and for the control of stored product pests in storage facilities such as silos, bunkers, or warehouses, in fumigation chambers, food handling and commodity processing facilities, and use for Quarantine Treatments as specified in the Directions for Use table.

For use only by licensed fumigators trained under Douglas Products' Stewardship Program



## Contents: 56.7 kg

Manufactured by:  
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## DIRECTIONS FOR USE

### RESTRAINTS

**DO NOT** apply when the temperature within the commodity or at the site of pest activity to be fumigated is below 5°C.

**DO NOT** connect cylinders to introduction equipment until all fumigation warning signs have been posted and the space to be fumigated is cleared of people, non-target animals (excluding pest rodents) and secured.

**DO NOT** fumigate processed cereal commodities.

**DO NOT** use on any commodity, empty containers, rail cars or other transportation vehicles that are in transit or likely to be in transit during exposure or ventilation.

**DO NOT** reuse clothing or shoes that have become contaminated with liquid ProFume® fumigant until thoroughly aerated.

**DO NOT** wear gloves or rubber boots when introducing ProFume.

**Rate of Use:** For all situations, the ProFume Applicator's Manual and the Fumiguide® program must be used to determine the appropriate dose for all fumigations. For the fumigation of structures containing food commodities, the maximum dosage rate is 1500 g-h/m<sup>3</sup> CTP. Do not exceed a maximum concentration of 128 g/m<sup>3</sup>.

SITUATIONS	PESTS
<b>Dwellings</b> (including mobile homes) <b>Buildings</b> <b>Construction materials, timber and logs</b> <b>Furnishings</b> (household effects) <b>Shipping containers</b> (including those containing pallets, machinery and non-food items) <b>Vehicles</b> (including cars, buses, surface ships, rail cars and recreational vehicles but excluding aircraft).	Existing infestations of insects such as borers, bedbugs, cockroaches, clothes moths, carpet beetles, drywood termites, and rodents (rats and mice).
<b>Commodity storage and non-residential structures NOT containing food commodities</b> including food handling and processing facilities, pet food facilities, mills, warehouses, silos, stationary transportation vehicles (railcars, trucks etc., <u>excluding</u> aircraft and passenger railcars), temporary and permanent fumigation chambers.	All life stages of stored product pests including: Indian meal moth ( <i>Plodia interpunctella</i> ), Mediterranean flour moth ( <i>Ephesia kuehniella</i> ), Confused flour beetle ( <i>Tribolium confusum</i> ), Rust red flour beetle ( <i>Tribolium castaneum</i> ), Warehouse beetle ( <i>Trogoderma variabile</i> ), Saw-toothed grain beetle ( <i>Oryzaephilus surinamensis</i> ), Dried fruit moth ( <i>Ephesia cautella</i> ), Drugstore beetle ( <i>Stegobium paniceum</i> ), Tobacco beetle ( <i>Lasioderma serricorne</i> ), Hide beetle ( <i>Dermestes maculatus</i> ), Grain weevil ( <i>Sitophilus granarius</i> ), Rice weevil ( <i>Sitophilus oryzae</i> ), Rust red grain beetle ( <i>Cryptolestes ferrugineus</i> ) and Lesser grain borer ( <i>Rhyzopertha dominica</i> ), Rodents (rats and mice)
<b>Commodity storage structures (as listed above) containing the following food commodities only:</b> <b>Cereal grains</b> e.g. barley, corn or maize, millet, oat, popcorn, rice, sorghum, spelt, triticale, wheat, wild rice and polished rice. <b>Dried fruits</b> e.g. apricots, dates, figs, prunes, raisins and sultanas. <b>Nuts</b> e.g. almonds, beech nuts, brazil nuts, cashews, chestnuts, hazel nuts, hickory nuts, macadamias, peanuts, pecans, pine nuts, pistachios and walnuts. <b>Baled hay</b> for animal feed and <b>pet food</b> .	Note: Not all seed varieties have been tested for viability following fumigation. Refer to Douglas Products for specific advice ( <a href="mailto:Customer@DouglasProducts.com">Customer@DouglasProducts.com</a> ).
<b>Seed storage facilities</b> holding seeds of additional plant varieties stored for propagation purposes only (i.e. NOT intended for human consumption).	

**CRITICAL COMMENTS:** The Applicator's Manual for ProFume and the Fumiguide Program and Calculator Application (hence Fumiguides) contain important information for the safe and effective use of this product. They must be used and must be in the user's possession during fumigation. Most fumigations can be achieved at much lower dosage rates than the maximum. You must be trained under the Douglas Products' Stewardship Program to access the Fumiguides. If the Applicator's Manual for ProFume is lost or access to the Fumiguides has expired, contact your distributor of ProFume or Douglas Products representative to obtain a replacement copy.

## Fumigations for Quarantine and Pre-shipment (QPS)

Situations	Pests	Rates	Critical Comments
Australian Government Department of Agriculture, Fisheries and Forestry (DAFF) Fumigations for Quarantine and Pre-shipment (QPS) purposes.	Brown marmorated stink bug (BMSB) ( <i>Halyomorpha halys</i> )	24 g/m <sup>3</sup> or above, at 10°C or above, for a minimum of 12-hours (but less than 24-hours), and a minimum end point reading of 12 g/m <sup>3</sup> ; OR 24 g/m <sup>3</sup> or above, at 10°C or above, for 24-hours or longer, and a minimum end point reading of 8 g/m <sup>3</sup> .	All fumigations to be performed in accord with DAFF sulfuryl fluoride fumigation methodology requirements.  The use of the Fumiguide® program is not required when following an approved QPS treatment schedule.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

### WITHHOLDING PERIOD

Allow a minimum of 24 hours after fumigation has ceased before releasing treated commodities for human or animal consumption.

### GENERAL INSTRUCTIONS

**GROUP 8C INSECTICIDE**

### INSECTICIDE RESISTANCE WARNING

For insecticide resistance management Profume® Fumigant is a Group 8C insecticide. Some naturally occurring insect biotypes resistant to ProFume and other Group 8C insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if ProFume and other Group 8C insecticides are used repeatedly. The effectiveness of ProFume on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Douglas Products accepts no liability for any losses that may result from the failure of ProFume to control resistant insects. ProFume may be subject to specific resistance management strategies. For further information contact your local supplier, Douglas Products representative or local agricultural department agronomist.

***ProFume is a hazardous material and should be used only by licensed fumigators trained under the Douglas Products' Stewardship training program.***

When used for fumigation of enclosed spaces, such as houses and other buildings, silos, bunkers, warehouses, vaults, chambers, trucks, vans, rail cars, ships and other transport vehicles, 2 persons trained in the use of this product, one of whom is licensed by the competent state authority, must be present during introduction of the fumigant, re-entry prior to aeration, and during the initiation of the initial aeration procedure. **Two persons need not be present if monitoring is conducted remotely (i.e. outside the risk area being fumigated).**

An **approved low concentration monitor** is required to be used to delineate risk areas and to test for clearance of ProFume to 3 ppm or less in fumigated enclosures and commodities after aeration. Low concentration monitors must be calibrated according to manufacturer guidelines. Contact your distributor of ProFume for information on currently approved low concentration monitors.

Prior to the fumigation, the fumigator must inspect the site to be fumigated to determine the potential Risk Area. The Risk Area is the area in which the air concentration of ProFume in the breathing zone may exceed 3 ppm. During fumigation and aeration, this area

includes the fumigated enclosure, the area immediately surrounding the fumigated enclosure, and connected areas. Refer to the Applicator's Manual for ProFume for additional directions on how to fumigate cargo and cargo holds onboard surface ships at port when essential ship crew members must remain on the ship.

A **Connected Area** is any area connected with the fumigated enclosure by construction elements, including pipes, conduits, and ducts, that may allow the passage of fumigant between these spaces. Any connected area must be vacated during the fumigation process unless it is isolated from the fumigated enclosure by methods that will prevent passage of the fumigant from the fumigated enclosure into the connected area. When it is necessary to vacate connected areas, these areas shall be considered as a fumigated space and all applicable rules, regulations and label instructions apply such as preparation, posting warning signs, securing, and aeration.

**Use of warning agent:** Chloropicrin is a warning agent that can be introduced into a structure during fumigation only where relevant to avoid direct exposure to ProFume. Chloropicrin is not used for fumigation of food commodities or structures, including industrial buildings, that contain food commodities. Chloropicrin may be released into a building at least 5 to 10 minutes prior to introduction of ProFume in situations where there is a high risk of persons inadvertently remaining in, or entering into, a fumigated building. To introduce the warning agent, place a handful of wicking agent (e.g. cotton) in a shallow chloropicrin evaporation container (e.g. dish). Do not use containers or application equipment made of magnesium, aluminium or their alloys, as chloropicrin may be severely corrosive to such metals. To enhance the distribution of chloropicrin throughout the structure, place the container in the air stream of a fan. Pour chloropicrin over the wicking agent. Dispense no more than 30 mL for 425 m<sup>3</sup> of space to be fumigated. Establish at least one chloropicrin introduction site for every 1275 m<sup>3</sup> of space to be fumigated.

Chloropicrin need not be used when fumigating rail cars; however a walk-through inspection must be performed of each rail car with doors being immediately locked upon leaving each car, and a guard must be posted during fumigation introduction, exposure period and aeration.

Refer to the Applicator's Manual for ProFume for additional directions on where and how to apply chloropicrin and personal protective equipment.

***Chloropicrin is a warning agent that causes smarting and/or watering of the eyes and discomfort. Chloropicrin has a very disagreeable pungent odour at very low concentrations.***

***Chloropicrin must be used only by a person certified to apply ProFume, or under their supervision. Fumigators must observe the precautionary statements and safety recommendations appearing on the label of this product.***

### PRECAUTIONS

Carefully read the label and the Applicator's Manual for ProFume and follow their directions for using this product. The ProFume Fumiguide Program and Calculator Application calculate the dosing for fumigations using ProFume. The Fumiguide Program is a Windows-based program that calculates the dosing for control of stored product insect pests and rodents. The Fumiguide Calculator Application calculates the dosing for wood borers, bedbugs, cockroaches, clothes moths, carpet beetles, and drywood termites. Refer to the Applicator's Manual for ProFume for additional directions on use of the Fumiguides.

Extinguish all flames including pilot lights of furnaces, hot water heaters, dryers, gas refrigerators, ranges, ovens, and open flames. Turn off or unplug all electrical heating elements such as those in heaters, dryers, etc. Shut off automatic switch controls for appliances and lighting systems that will be included in the space to be fumigated. Contact your local gas company to determine what procedures should be followed in your area for shutting off natural gas or propane service. Gas service should be shut off at the main service valve. Food and feed not approved for fumigation with ProFume® fumigant, drugs (including tobacco products), and medicinals (including those items in refrigerators and freezers) can remain in fumigated space if they are in plastic, glass, or metal bottles, cans, or jars with the original manufacturer's air-tight seal intact. Otherwise, these items, need to be removed prior to fumigation. ProFume can also react with strong bases such as some photo developing solutions. Refer to the Applicator's Manual for ProFume for additional directions on preparation and sealing for fumigation.

**Never** allow untrained individuals to use ProFume.

### **Walk through of areas to be fumigated and securing structure entrances**

Where the structure or situation allows, a thorough walk-through inspection of areas to be treated must be performed immediately prior to the introduction of the fumigant with all entrances being locked upon leaving. The fumigator must secure the structure against unauthorised entry during fumigation by using a locking/exclusion device on all exterior doors, doorways or access points. A locking/exclusion device must be demonstratively effective in preventing entry to the fumigated area through exterior doors, doorways or access points by anyone other than the certified applicator in charge of the fumigation or persons under their direct supervision.

Locking/exclusion devices are not required for use on fumigated enclosures, such as grain bunkers and sheeted stacks, that do not have exterior doors, doorways, or access ports. Refer to the Applicator's Manual for ProFume for additional directions on securing structures.

**Notify** appropriate owners, employees, and/or operators at the facility where the fumigation will occur. All entrances and all sides of the fumigated structure or fumigated space must have warning signs (see below):

### **Posting (Signage) of Fumigated Areas**

The applicator must post all entrances to the fumigated areas with signs showing:

1. The SKULL and CROSSBONES symbol.
2. The statement, **"Danger, Keep Out, Fumigation with ProFume."**

Name and telephone number of the fumigation business or the fumigator, depending upon the Commonwealth, State, Territory, and local regulations. Only a licensed fumigator may authorise removal of placards and the structure must remain posted for fumigation until clear for re-entry when the concentration of ProFume in the treated site is 3 ppm or less determined using an approved low concentration monitor. The concentrations of ProFume must also be monitored in breathing zones outside the structure as appropriate.

No one should be in treated areas if the level of ProFume is above 3 ppm unless provided with an approved, positive pressure self contained breathing apparatus (SCBA) or combination air supplied/SCBA respirator. Since the approved low concentration monitors give immediate readings, respiratory protection is not

required when clearing with these instruments after having completed the initial aeration procedure. However, if a reading indicates levels above 3 ppm, leave the affected area immediately.

### **Fumigant Introduction**

The release of high pressure fumigant can be forceful and there is potential for personal injury. Care must be exercised when fumigating, especially tarped commodities, so that the fumigant is not released too rapidly and "balloons" the tarp off the restraining sand or water snakes. A fog-out can also occur if the fumigant is released too rapidly, cooling the air temperature below the dew point. The rapid discharge of ProFume through introduction equipment will result in cooling parts of the equipment and the cylinders. Contact with the cooled equipment can cause frostbite. Refer to the Applicator's Manual for ProFume for additional directions on equipment and procedures for fumigant introduction.

### **Aeration and Re-entry**

Do not allow entry into the treated structures until the concentration of ProFume is confirmed to be 3 ppm or less measured with an approved low concentration monitor. For structures containing commodities, ensure that the concentration of ProFume is 3 ppm or less in the structure before removing the fumigated commodity.

**If required to enter the fumigated area during the aeration procedure, approved respiratory protection must be worn until concentration of ProFume is confirmed to be 3 ppm or less with an approved low concentration monitor.** No one shall be in fumigated areas if the level of ProFume is above 3 ppm unless wearing an approved positive pressure self-contained breathing apparatus (SCBA) or combination air supplied/SCBA respirator. Once the concentration is confirmed to be 3 ppm or less the structure is cleared for immediate re-entry.

Non-industrial buildings include dwellings, hotels and motels, medical facilities, offices, stores, schools, churches, and museums, and exclude industrial buildings such as food handling and processing facilities, pet food facilities, mills, and warehouses. When aerating tarped, non-industrial buildings, conduct the Controlled Aeration Procedure (CAP) for at least 12 hours. For CAP, aeration fans connected to aeration ducting and inlet devices are positioned before fumigant introduction during tarping and are opened and activated to conduct aeration while tarps remain on the building. The aeration time and number of ducts and inlets required increase as the volume of the fumigated building increases. When aerating tape-and-seal, non-industrial buildings, conduct the Active Aeration Procedure for at least 12 hours. This requires aerating the structure with all operable windows and doors open, aided by using one or more fans, for a minimum of 1 hour. After the hour active aeration, the structure is secured and can be passively aerated for the remaining aeration time, which increases as the volume of the fumigated building increases. When aerating passenger rail cars without operable on-board ventilation systems, conduct Aeration Procedure A for a minimum of 6 hours. When aerating passenger rail cars using operable on-board ventilation systems, conduct Aeration Procedure B for a minimum of 2 hours. Follow the specific directions for these aeration procedures for non-industrial buildings and passenger railcars as described in the Applicator's Manual for ProFume.

**Note 1:** Before using any make or brand of SCBA, learn how to use it correctly. Determine that it is in good working order, has an adequate air supply for the job at hand, fits properly, and provides an adequate seal around the face.



## Leak Procedures

Evacuate immediate area of leak. Use an approved positive pressure self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator for entry into affected areas to correct problem.

Move leaking or damaged cylinder outdoors or to an isolated location, observing strict safety precautions. Work upwind if possible. Establish a barricaded risk area to ensure ProFume® fumigant levels are 3 ppm or less, as measured using an approved low concentration monitor at the risk area boundary. Do not permit entry into risk area by unprotected persons until concentration of fumigant is determined to be 3 ppm or less.

## Additional Precautions and Safety Information

Do not wear gloves or rubber boots. Do not reuse clothing or shoes that have become contaminated with liquid ProFume until thoroughly aerated. Wear loose fitting or well-ventilated long-sleeve shirt, long pants, shoes and socks.

In all cases of overexposure, when symptoms such as nausea, difficulty in breathing, abdominal pain, slowing of movements and speech, or numbness in extremities are exhibited, get medical attention immediately. Take person to a doctor or emergency treatment facility.

## Transportation of Cylinders

**DO NOT** transport cylinders in closed vehicles where the same common airspace is occupied by personnel. On public roads transport only when secured in an upright position.

**DO NOT** use rope slings, hooks, tongs, or similar devices to unload cylinders.

**DO NOT** remove valve protection bonnet and safety cap until immediately before use. When cylinder is empty, close valve, screw safety cap onto valve outlet, and replace protection bonnet before returning to supplier.

Cylinders of ProFume must never be transported by aircraft under any circumstances.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

ProFume is a highly toxic gas. Do not expose non-target organisms. This pesticide is toxic to fish and wildlife.

To the extent possible, rodent carcasses should be recovered following fumigation and be destroyed by burning or burial according to the requirements of the State or Territory in which use has occurred.

## STORAGE AND DISPOSAL

**Storage:** Store in a dry, cool, well-ventilated, secured and locked area. Storing indoors in occupied areas in buildings is **not** recommended.

Cylinders of ProFume are under pressure and must not be stored near heat or open flame. Exposures to temperatures above 70°C will cause a fusible plug to melt and the contents will be released. Store cylinders upright; secured to a rack or wall to prevent tipping. Cylinders should not be subjected to rough handling or mechanical shock such as dropping, bumping, dragging, or sliding. Do not store near food, feedstuffs, fertilisers or seed. Follow the current Australian regulations for storage of gases in cylinders and mixed classes of dangerous goods.

**Disposal:** Empty cylinders **MUST** be returned to your supplier. **DO NOT** use cylinders for any other purpose. Follow proper cylinder

handling directions above. Cylinders remain the property of Douglas Products.

## SAFETY DIRECTIONS

Harmful if inhaled. Will damage eyes. Liquid can cause freeze burns. Do not inhale vapour. When using the product, wear overalls buttoned to neck and wrist (or equivalent clothing), splash resistant goggles or face shield. In addition, where sulfuryl fluoride is confirmed to exceed 3 ppm (using an approved low concentration monitor), wear positive pressure self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator.

## FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone *Australia* 13 11 26.

## SAFETY DATA SHEET

Additional information is listed on the Safety Data Sheet for **PROFUME** which is available from Douglas Products on request.

**EMERGENCY RESPONSE (ALL HOURS)**  
**RING FROM ANYWHERE IN AUSTRALIA**

**02 9037 2994**

**IN A TRANSPORT EMERGENCY ONLY**  
**DIAL 000**  
**FOR POLICE OR FIRE BRIGADE**

## Labelling Hazardous Chemicals (WHS Regulations)

**May cause damage to organs through prolonged or repeated exposure**

Protect from sunlight.

Use in a well-ventilated area.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Specific treatment is urgent

Customer Service [customer@douglasproducts.com](mailto:customer@douglasproducts.com)

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Batch Number

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**PRECISION**  
**FUMIGATION**<sup>TM</sup>