

**ProFume<sup>®</sup>**

**EPA Reg. No. 62719-376**

## **Registration Notes:**

**Final printed labeling** based upon EPA-accepted copy dated July 15, 2005 with the following conditions of acceptance:

Applicator's Manual-

1. Inserted page numbers in Table of Contents.
2. Commodities That Can be Fumigated: Revised "Milk" to read "Milk, powdered" and corrected spelling of "wheat" in "Wheat milled byproducts."
3. Flames or Heating Elements: Replaced "SO<sub>2</sub>" with "sulfur dioxide" and "HF" with "hydrofluoric acid."
4. Checking for Connected Areas: In first sentence of third paragraph, added "continually" – "ProFume concentrations in the breathing zones must be continually measured during the fumigation of a structure in any occupied isolated connected structures to verify ProFume concentrations are <1 ppm to confirm that individuals in the isolated areas are not exposed to unacceptable levels of ProFume."
5. Aeration – Recommended Practice: Revised third paragraph to read "Aerate at the highest point practical: By aerating at the highest point on the structure, the highest concentrations of fumigant are directed away from workers and bystanders and are allowed to quickly dilute to levels <1 ppm."

<sup>®</sup>Trademark of Dow AgroSciences LLC

(Label)

**RESTRICTED USE PESTICIDE  
DUE TO ACUTE INHALATION TOXICITY OF SULFURYL FLUORIDE**

For sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification. An applicator certified by the state must be present on site at all times during introduction of fumigant, reentry prior to aeration, and initiation of the aeration procedure.

(Logo) Dow AgroSciences

**ProFume<sup>®</sup>****Gas Fumigant**

**For control of rodent, insect and other invertebrate pests.**

**Sites to be fumigated: Non-residential structures, food handling establishments (e.g., pet food facilities, bakeries, food production facilities, mills, warehouses, etc.), stationary transportation vehicles (railcars, shipping containers, trucks, etc., excluding aircraft and passenger railcars), temporary and permanent fumigation chambers, and storage structures.**

This product is accompanied by a ProFume Applicator's Manual describing the sites and commodities that can be fumigated, pests controlled, application rates and safety procedures to follow during fumigation. Read the entire container label and ProFume Applicator's Manual before use. The ProFume Applicator's Manual contains important information for the safe and effective use of this product and must be read and in the user's possession during fumigation. If the ProFume Applicator's Manual is lost, contact your ProFume distributor or Dow AgroSciences representative to obtain a replacement copy.

**When fumigating, all local, state, and federal rules and regulations regarding use of detection devices, positive-pressure self-contained breathing apparatus, security requirements, and placement of warning signs must be observed.**

Active Ingredient	
sulfuryl fluoride .....	99.8%
Inert Ingredients .....	0.2%
Total .....	100.0%

**Keep Out of Reach of Children**

**DANGER**  **POISON**

[Editors note: the word POISON must appear in red]

**PELIGRO**

Si usted no entiende la etiqueta ni el manual de fumigación del gas fumigante ProFume, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label nor ProFume Applicator's Manual, find someone to explain it to you in detail.)

**First Aid**

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.

**If inhaled:** 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 or clothing:** May cause frostbite to unprotected skin upon contact with dispensing equipment when gas is discharged. Immediately apply water to contaminated area of clothing before removing. Once area has thawed, remove contaminated clothing, shoes, and other items covering skin. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If in eyes:** May cause "cryogenic burn" if exposed. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Liquid ProFume in the eye may cause damage due to refrigeration or freezing. Call a poison control center or doctor for treatment advice.

**Note to Physician:** ProFume is a gas that has no warning properties such as odor, color, or eye irritation. Early symptoms of exposure to ProFume are respiratory irritation and central nervous system depression. Excitation may follow. Slowed movement, reduced awareness, and slow or garbled speech may be noted. Prolonged exposure can produce lung irritation, pulmonary edema, nausea, and abdominal pain. Repeated exposure to high concentrations can result in significant lung and kidney damage. Single exposures at high concentrations have resulted in death. Treat symptomatically.

Have the product label or ProFume Applicator's Manual with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

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**Precautionary Statements**

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**Hazards to Humans and Domestic Animals**

**Danger • Fatal If Inhaled • Causes Irreversible Eye Damage • Liquid Causes Freeze Burns Of Exposed Skin • May Be Fatal If Swallowed**

**Do not breathe vapor. Do not get in eyes, on skin, or on clothing. ProFume is odorless and colorless. Exposure to toxic levels may occur without warning or detection by the user.**

**Personal Protective Equipment for Fumigation****Protective Clothing**

Wear splash resistant goggles or full face shield when handling the liquid product during introduction of fumigant or when working around any lines containing fumigant under pressure. 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.

**Respiratory Protection**

If the concentration of ProFume in the fumigated area as measured by a detection device with sufficient sensitivity [Limit of Detection (LOD)  $\leq$  1 ppm] such as an INTERSCAN gas analyzer [Model GF 1900] or MIRAN vapor analyzer [SapphIRe] does not exceed 1 ppm, no respiratory protection is required. When this concentration is exceeded or when the concentration of ProFume is unknown, all persons in these areas must wear a NIOSH or MSHA approved positive pressure self-contained breathing apparatus (SCBA, not SCUBA), approval number prefix TC-19C, or combination air-supplied/SCBA respirator such as manufactured by Draeger, Ranger, Survivair, Scott, or MSA. This SCBA must be on site and operational before fumigation. 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.

### **Environmental Hazards**

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

### **Physical or Chemical Hazards**

Sulfuryl fluoride is a colorless, odorless toxic gas. ProFume cylinders are under pressure and must not be stored near heat or open flame. Exposures to temperatures above 158°F will cause a fusible plug to melt and the contents will be released. Under high heat conditions (temperatures above 752°F), ProFume can decompose into sulfur dioxide (SO<sub>2</sub>), hydrofluoric acid (HF), and other decomposition products. Hydrofluoric acid is highly reactive and can corrode or damage many materials including metals, glass, ceramic finishes, fabrics, etc. Extinguish all flames including pilot lights of furnaces, hot water heaters, dryers, gas refrigerators, ranges, ovens, broilers, etc. Turn off or unplug all electrical heating elements such as those in heaters, dryers, etc., that represent a reasonable risk of a heat source that is at or near 752°F. 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. Sulfuryl fluoride can react with strong bases such as some photo developing solutions.

ProFume cylinders must never be transported by aircraft under any circumstance.

**Refer to the ProFume Applicator's Manual for additional precautionary information and Directions for Use.**

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies elsewhere on the label. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at [www.dowagro.com](http://www.dowagro.com).

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

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**Dow AgroSciences LLC • Indianapolis, IN 46268 U.S.A.**

**Net Contents** \_\_\_\_

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## 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. Read all Directions for Use carefully before applying.

### Storage and Handling

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

**Cylinder Storage:** Storing indoors in occupied areas in buildings is **not** recommended. Store in an adequately dry, cool, well ventilated secured and locked area. Post as a pesticide storage area. All cylinders (full, partially full, or empty) should be stored in an upright (vertical) position with safety caps and protective bonnets securely in place. Secure ProFume cylinders to prevent being knocked over during storage, transport, weighing, and fumigant release. Secure in a manner that does not deface the label. Various state and local authorities may regulate the storage of ProFume. Be certain to check with the appropriate authorities in your area.

If cylinders are stored in an enclosed area without proper ventilation, the area must be tested for leaks using an Interscan or Miran analyzer, or similar device of sufficient sensitivity, so persons entering or working in the general area will not be exposed to concentrations of ProFume >1 ppm. Contact your state and local authorities for additional guidelines.

**Transportation of Cylinders:** Transport cylinders capped and secured in an upright position. On public roads, transport securely only in an upright position. During transport, special care must be taken to prevent rough handling or mechanical shock such as dropping, bumping, dragging, or sliding. Also, dip tubes can be broken due to sharp blows and shocks if the cylinder is on its side. Never transport unsecured cylinders without preventing their excessive movement. Never suspend or lift cylinders by the valve. Loose cylinders can become airborne and cause significant damage in an accident.

Do not transport cylinders in closed vehicles where the same common airspace is occupied by personnel. Never transport ProFume cylinder by aircraft.

Do not remove valve protection bonnet and safety cap until immediately before use. Replace safety cap and valve protection bonnet when cylinder is not in use.

When cylinder is empty, fully close the valve, and replace the safety cap and protection bonnet before returning to the ProFume distributor and subsequent supplier. Only Dow AgroSciences is authorized to refill cylinders. Do not use cylinders for any other purpose.

**Leak Procedures:** Evacuate immediate area of leak. Use a NIOSH or MSHA approved positive pressure self-contained breathing apparatus (SCBA, not SCUBA) or combination air-supplied/SCBA respirator, such as manufactured by Draeger, Ranger, Survivair, Scott, or MSA, 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. Do not permit entry into leakage area by unprotected persons until concentration of fumigant is determined to be 1 part per million (ppm) or less, as determined by a detection device with sufficient sensitivity such as an INTERSCAN gas analyzer [Model: GF 1900] or MIRAN vapor analyzer [SapphIRe].

**Pesticide Disposal:** Promptly return all empty cylinders to the supplier of ProFume. All unused or unwanted partially used cylinders must be returned to the supplier of ProFume. Follow proper cylinder handling directions above. Supplier must return all cylinders to The Dow Chemical Company, Pittsburg, California facility.

Pesticide wastes are toxic. Improper disposal of excess pesticides is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, consult your State Pesticide or Environmental Control Agency or Hazardous Waste office nearest your location.

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## General Information

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## Restricted Use Pesticide

Carefully read the container label and ProFume® gas fumigant Applicator's Manual before using this product. Do not use this product without the Fumiguide® Program for ProFume. The ProFume Fumiguide is a computer program available to calculate safe and effective levels of ProFume for fumigating structures and commodities. Never allow untrained individuals to use ProFume.

**Prior to fumigation, read the Applicator's Manual carefully. Notify appropriate owners, employees, and/or operators at the facility where the fumigation will occur, and provide relevant safety and health information to local fire and rescue officials for use in the event of an emergency.**

Do not connect cylinders to introduction equipment until all fumigation warning signs have been posted and the space to be fumigated is clear of people, non-target animals and secured.

## Compressed Gas Hazards

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 of 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. This is avoided by following the instructions in the ProFume Applicator's Manual.

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.

ProFume is a highly hazardous material and should be used only by individuals knowledgeable of its chemical hazards and trained in the use of required respiratory equipment, detection devices, emergency procedures, and proper use.

Two persons trained in the use of this product, at least one being an applicator certified by the state, must be present on site at all times during introduction of the fumigant, reentry prior to aeration, initiation of the aeration procedure, and when testing for reentry after aeration (if aerated in an enclosed space).

**After fumigation, it is essential no occupant reenter the fumigated space until the fumigant has been aerated and the space has been fully tested and cleared for reentry.**

Only a detection device of sufficient sensitivity ( $LOD \leq 1$  ppm), such as the INTERSCAN gas analyzer [Model GF 1900] or MIRAN vapor analyzer [SapphIRe], can be used to confirm a concentration of ProFume of 1 ppm or less. The Interscan gas analyzer GF 1900 must be calibrated within one month prior to use as a detection device. All other approved detection devices must be calibrated according to manufacturer recommendations. The concentration of ProFume must be monitored throughout the structure in the breathing zone. The structure or enclosure must remain posted for fumigation until cleared for reentry.

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## Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies.

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## Warranty Disclaimer

Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Dow AgroSciences MAKES NO OTHER EXPRESS OR

IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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**Inherent Risks of Use**

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It is impossible to eliminate all risks associated with use of this product. Lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as low temperature, etc.), abnormal conditions (such as excessive winds, tornadoes, hurricanes), presence of other materials (poor sanitation, large amounts of infested product), the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

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**Limitation of Remedies**

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The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories, shall be limited to, at Dow AgroSciences' election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use, and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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