

Chemical Factsheet

Sulfuryl fluoride

General Information

- Fact Sheet: [Structural Fumigants_sulfuryl_fluoride_&_methyl_bromide.pdf](#)
- Product Names:
 - **ProFume** (Dow)
 - **Vikane** (Dow)
 - **Zythor** (Ensystem II)
- Chemical Class: Inorganic fungicide, insecticide, rodenticide
- Uses: Fumigation of closed structures and their contents such as domestic dwellings, garages, barns, storage buildings, commercial warehouses, ships in port, and railroad cars; targets termites, powder post beetles, old house borers, bedbugs, carpet beetles, clothes moths, cockroaches, rats and mice.
- Alternatives: [Least-Toxic controls of Termites](#), [cockroaches](#), [moths](#), [bedbugs](#), and [mice](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: Not documented
- Endocrine Disruption: Not documented
- Reproductive Effects: Yes (1)
- Neurotoxicity: Yes (1)
- Kidney/Liver Damage: Not documented
- Sensitizer/ Irritant: Not documented
- Birth/Developmental: Yes (1)
- Detected in Groundwater: Not documented
- Potential Leacher: Not documented
- Toxic to Birds: Not documented
- Toxic to Fish/Aquatic Organisms: Not documented
- Toxic to Bees: Not documented

Residential Uses as Found in the ManageSafe™ Database

- [Termites](#)

Additional Information

- Regulatory Status:
 - [EPA Reregistration Eligibility Decision \(RED\) signed](#) (9/1993)
 - Beyond Pesticides' [petition](#) to cancel tolerances and [comments](#) on tolerances.
- Supporting information:
 - [When Politics Trumps Science and Health Suffers](#) (Beyond Pesticides)
 - [The Safer Choice](#) (Beyond Pesticides)
 - [NCAP Sulfuryl Fluoride Factsheet](#) (Northwest Coalition for Alternatives to Pesticides)

- [National Pesticide Information Center Factsheet](#) (NPIC)
- [PAN Pesticides Database:Sulfuryl Fluoride](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Greater Los Angeles Area dominates U.S. emissions of sulfuryl fluoride, a potent greenhouse gas](#). Gaeta, D.C., Vimont, I.J., Miller, B.R., Zhang, M. and Miller, S.M. AGU Fall Meeting 2021. AGU.
 - [A15K-1789 - Greater Los Angeles Area dominates U.S. emissions of sulfuryl fluoride, a potent greenhouse gas](#). Gaeta, D.C., Vimont, I.J., Miller, B.R., Zhang, M. and Miller, S.M. In AGU Fall Meeting 2021. AGU.
 - [California dominates U.S. emissions of the pesticide and potent greenhouse gas sulfuryl fluoride](#). Gaeta, D.C. et al. (2024) California dominates U.S. emissions of the pesticide and potent greenhouse gas sulfuryl fluoride, Communications Earth & Environment. Available at: <https://www.nature.com/articles/s43247-024-01294-x>
 - [Experimental and Theoretical Study of the Atmospheric Chemistry and Global Warming Potential of SO₂F₂](#). Papadimitriou, V.C. et al. (2008) 'Experimental and theoretical study of the atmospheric chemistry and global warming potential of so₂F₂', The Journal of Physical Chemistry A, 112(49), pp. 12657-12666. Available at: https://www.ipcc.int/static/media/files/publications/en/2013/06/05/1309266200_2006-102_SulfurylFlourideWoodPac.pdf.

Gateway Health and Environmental Effects Citations

1. Beyond Pesticides ChemWatch Factsheets. (Cited under factsheets on [Beyond Pesticides Gateway](#); see top of individual chemical page)

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