

# Chemical Factsheet

## Sulfur

### General Information

- Fact Sheet: [Sulfur.pdf](#)
- Product Names:
  - Miracle Gro Weed And Feed 27-3-6** (Scotts Company), formulated with Urea, 2-(2-Methyl-4-chlorophenoxy)propionic acid, 2,4-D, Potassium chloride, Ammonium phosphate
  - Scotts Extended Residual Fertilizer Plus Pre emergent Weed Control 33-0-0** (Scotts Company), formulated with Urea, Ammonium sulfate, Pendimethalin
  - Revenge Rodent Smoke Bomb** (Roxide International) Potassium nitrate
  - Bonide Soil Acidifier** (Bonide Products) Cristobalite
  - Miracle Gro All Purpose Lawn Fertilizer 31-3-9** (Scotts Company), formulated with Urea, Iron(III) oxide, Potassium chloride, Ammonium phosphate
- Chemical Class: Inorganic fungicide, miticide, insecticide, rodenticide
- Uses: Insecticide, fungicide and rodenticide on food and feed crops, ornamental, turf and residential sites; also used as a soil amendment for reclaiming alkaline soils
- Alternatives: [Ornamental/lawns](#), [residential](#)
- Beyond Pesticides rating: [Least-toxic](#)

### Health and Environmental Effects

*See citations at end of document.*

- Cancer: Not documented
- Endocrine Disruption: Not documented
- Reproductive Effects: Not documented
- Neurotoxicity: Not documented
- Kidney/Liver Damage: Not documented
- Sensitizer/ Irritant: Yes (1)
- Birth/Developmental: Not documented
- Detected in Groundwater: Not documented
- Potential Leacher: Yes (2)
- 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

- [Chiggers](#)
- [Mold](#)
- [Tree Squirrels](#)

### Additional Information

- Regulatory Status:
  - [EPA Reregistration Eligibility Decision \(RED\) signed](#) (4/1991)

- Supporting information:
  - [Exttoxnet Sulfur Factsheet](#) (Extension Toxicology Network)
  - [PAN Pesticides Database:Sulfur](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
  - [Top 15 Farmworker Poison](#)
  - [Exposure to agricultural pesticides and wheezing among 5–12-year-old children in the Imperial Valley, CA, USA](#). Ornelas Van Horne, Y. et al. (2024) Exposure to agricultural pesticides and wheezing among 5–12-year-old children in the Imperial Valley, CA, USA, Environmental Epidemiology. Available at: [https://journals.lww.com/environepidem/fulltext/2024/10000/exposure\\_to\\_agricultural\\_pesticides\\_and\\_wheezing.2.as](https://journals.lww.com/environepidem/fulltext/2024/10000/exposure_to_agricultural_pesticides_and_wheezing.2.as)
  - [Elemental Sulfur Use and Associations with Pediatric Lung Function and Respiratory Symptoms in an Agricultural Community \(California, USA\)](#). Raanan, R. et al. (2017) Elemental Sulfur Use and Associations with Pediatric Lung Function and Respiratory Symptoms in an Agricultural Community (California, USA), Environmental Health Perspectives. Available at: <https://ehp.niehs.nih.gov/doi/full/10.1289/EHP528>.

## Gateway Health and Environmental Effects Citations

1. US EPA, Office of Prevention, Pesticides and Toxic Substances, Reregistration Eligibility Decisions (REDs), Interim REDs (iREDs) and RED Factsheets.  
<https://archive.epa.gov/pesticides/reregistration/web/html/status.html>.
2. Extension Toxicology Network (EXTOXNET) Pesticide Information Profiles.  
<http://extoxnet.orst.edu/pips/ghindex.html>

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