

## San Francisco Carbon Black Exposure from SBR Athletic Fields (2014)

In 2003 for the purposes of Prop 65, the California Office of Health Hazard Assessment, (OEHHA), added Carbon Black to its list of, "chemicals known to the State to cause cancer".



As of 2014, San Francisco has introduced well over **12,780,000 lbs** (6390 tons) of respirable carbon black ultra-fine particles into the San Francisco environment -- by its use of styrene butadiene SBR synthetic turf. (These figures do not include any of the other additional SBR chemicals.)

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### Calculations:

**40,000** / 60,000 tires are used per playing field, (football field / soccer field). [FieldTurf.com](http://FieldTurf.com)

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An average passenger tire produces **7.5** pounds of carbon black. [RubberNews.com](http://RubberNews.com) / [Crain Communications, Inc.](http://Crain Communications, Inc.)

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**40,000 x 7.5 = 300,000 pounds of carbon black per regulation football field.**

(this does not include sidelines and end zones)

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A football field is approximately 1.1 acres (this does not include sidelines and end zones) [NFL rulebook](http://NFL rulebook)  
*300 feet (100 yards) by 160 feet = 48,000 square feet = 1.1 acre*

Each SBR installation contains, (conservatively), 300,000 pounds of carbon black per 1.1 acre.

San Francisco has converted over 34 acres to SBR synthetic fields:

- Youngblood Coleman (1.09)
- Franklin Square (1.83)
- **Silver Terrace (3.02)**
- **Garfield (.60)**
- **Crocker Amazon (8.80)**
- **Kimball Playground (3.30)**
- **South Sunset Playground (1.98)**
- **Mission (.57)**
- **Minnie and Lovie Recreation Center (5.5)**
- Galileo High School (.90)
- John O'Connell High School (.57)
- St. Ignatius – 2 fields (1.74 + .57)
- USF Negoesco soccer (1.84)
- George Washington High School – 2 fields (3.23 + 1.18)
- Sacred Heart Prep (.57)
- City College of San Francisco (2.11)
- Lowell High School (1.36)
- Balboa High School (1.59)
- Loomis Field (.38)

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Total 42.6 acres x 300,000 lbs. = **12,780,000 lbs** (6390 tons) of the carcinogen carbon black.