

Examples of the **toxic chemicals** that may be released from this artificial turf include (chemicals used by industrial fracking operations in **bold**):

acetone, **aniline**, arsenic, barium, **benzene**, benzothiazole, **cadmium**, chloroethane, chromium, cobalt, copper, halogenated flame retardants, isoprene, latex, **lead**, manganese, mercury, **methyl ethyl ketone**, **methyl isobutyl ketone**, **naphthalene**, **nickel**, phenol, pigments, **polycyclic aromatic hydrocarbons**, **styrene** – butadiene, **toluene**, and trichloroethylene.

Chlorinated hydrocarbons:

chloroethane  
trichloroethylene

Body burden:

<http://www.cnn.com/2014/02/14/health/chemicals-children-brains/index.html>

trichloroethylene--close cousin to tetrachloroethylene, the T in DDT

Toluene--found in airplane glue and used in methamphetamine production

PAH's

acenaphthene  
acenaphthylene  
anthracene  
benz(a)anthracene  
benzo(a)pyrene  
benzo(e)pyrene  
benzo(b)fluoranthene  
benzo(ghi)perylene  
benzo(j)fluoranthene  
benzo(k)fluoranthene  
chrysene  
dibenz(ah)anthracene  
fluoranthene  
fluorene  
indeno(1,2,3-cd)pyrene  
phenanthrene  
pyrene

[US EPA](#) (1994) classified a number of PAHs as carcinogenic to animals and some PAH-rich mixtures as carcinogenic to humans. The [EPA](#) has classified seven PAH compounds as probable human carcinogens: benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(ah)anthracene, and indeno(1,2,3-cd)pyrene.