

**Mike Sullivan**

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**From:** Leo Petrilli [leovan7052@yahoo.ca]  
**Sent:** March-18-09 6:08 PM  
**To:** mdsullivan@sympatico.ca; mike@cep.ca  
**Cc:** leo pet  
**Subject:** Diesel engine exhaust chemicals

Hello Mike

As per our conversation today, here is the information. Let me know if I can help with anything.

Be Well,

Leo

The following are chemicals in Diesel Exhaust listed by the Californian Air Resources Board as Toxic Air Contaminants:

acetaldehyde  
acrolein  
aniline  
antimony compounds  
arsenic  
benzene  
beryllium compounds  
biphenyl  
bis[2-ethylhexyl]phthalate  
1,3-butadiene  
cadmium  
chlorine  
hexane  
inorganic lead  
manganese compounds  
mercury compounds  
methanol  
methyl ethyl ketone  
naphthalene  
nickel  
4-nitobiphenyl  
phenol  
phosphorus  
Polycyclic Aromatic Hydrocarbons  
chlorobenzene  
chromium compounds  
cobalt compounds  
cresol isomers  
cyanide compounds



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dioxins and dibenzofurans  
 dibutylphthalate  
 ethyl benzene  
 formaldehyde  
 propionaldehyde  
 selenium compounds  
 styrene  
 toluene  
 xylene isomers and mixtures  
 o-xylenes  
 m-xylenes  
 p-xylenes

According to the Safe Drinking Water and Toxic Enforcement Act of 1986, the following chemicals have been identified.

naphthalene, cancer, CAS No. 91203, Listed- April 19, 2002  
 benz[b+j+k]fluoranthene, cancer, CAS Nos. 205992, 205823, 207089, Listed- July 1, 1987  
 benzo[a]pyrene, cancer, CAS No. 50328, Listed- July 1, 1987  
 dibenzo[a]anthracene, cancer, CAS No.53703, Listed- January 1, 1988  
 4-nitrobiphenyl, cancer, CAS No. 92933, Listed- April 1, 1988  
 2-nitrofluorene, cancer, CAS No. 607578, Listed- Oct 1, 1990  
 1-nitropyrene, cancer, CAS No. 5522430, Listed- Oct 1, 1990  
 1,6 dinitropyrene, cancer, CAS No. 42397648, Listed- October 1, 1990  
 1,8 dinitropyrene, cancer, CAS No. 42397659, Listed- October 1, 1990

A search of the website [www.scorecard.org/chemical-profiles/](http://www.scorecard.org/chemical-profiles/) <<http://www.scorecard.org/chemical-profiles/>> revealed the following information regarding diesel exhaust chemicals.

Possible Carcinogens include:

coronene  
methylphenanthrene  
methylanthracene  
methylphenanthrene  
ethylphenanthrene  
3 methylchrysenene

Suspected Carcinogens include:

biphenyl  
2 methylbiphenyl  
acenaphthylene  
acenaphthene  
phenanthrene  
fluorene  
anthracene  
fluoranthene

pyrene

Known Carcinogens include:

naphthalene

dimethylbiphenyl

benz[a]anthracene

chrysene

methylbenz[a]anthracene

dibenzopyrene

4 nitrobiphenyl

2 nitrofluorene

1 nitrofluoranthene

1,6 dinitropyrene

1,8 dinitropyrene

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The following information comes from a search of the above mentioned

Scorecard Chemical Website and a list of Chemicals in Diesel Exhaust listed by the California Air Resources Board as Toxic Air Contaminants.

acetaldehyde- CAS No. 75-07-0. Recognized Carcinogen. Developmental Toxicant, Immunotoxicant, Kidney Toxicant, Neurotoxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

acrolein- CAS No. 107-02-8. Suspected Carcinogen. Cardiovascular or Blood Toxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant

aniline- CAS No. 62-53-3. Recognized Carcinogen. Cardiovascular or Blood Toxicant, Gastrointestinal or Liver Toxicant, Kidney Toxicant, Neurotoxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

antimony compounds- CAS No. ADQ 500. Suspected Carcinogen. Respiratory Toxicant, Skin or Sense Organ Toxicant.

antimony- CAS No. 7440-36-0. Suspected Carcinogen. Cardiovascular or Blood Toxicant, Neurotoxicant, Reproductive Toxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

arsenic- CAS No. 7440-38-2. Recognized Carcinogen - Developmental Toxicant. Suspected Carcinogen - Cardiovascular or Blood Toxicant, Endocrine Toxicant, Gastrointestinal or Liver Toxicant, Immunotoxicant, Kidney Toxicant, Neurotoxicant, Reproductive Toxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

benzene- CAS No. 71-43-2. Recognized Carcinogen - Developmental Toxicant, Reproductive Toxicant. Suspected Carcinogen - Cardiovascular or Blood Toxicant, Endocrine Toxicant, Gastrointestinal or Liver Toxicant, Immunotoxicant, Neurotoxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

beryllium compounds- CAS No. BFQ 500. Recognized Carcinogen and Suspected Carcinogen- Immunotoxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

1,3 butadiene- CAS No. 106-99-0. Recognized Carcinogen- Developmental Toxicant, Reproductive Toxicant, Suspected Cardiovascular or Blood Toxicant, Gastro Intestinal Toxicant, Neurotoxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

cadmium- CAS No. 7440-43-9. Recognized Carcinogen- Developmental Toxicant, Reproductive Toxicant. Suspected Carcinogen- Cardiovascular Toxicant, Blood, Endocrine, Immunotoxicant, Kidney Toxicant, Neurotoxicant, Respiratory Toxicant.

chlorine- CAS No. 7782-50-5. Suspected Carcinogen- Cardiovascular or Blood Toxicant, Gastrointestinal or Liver Toxicant, Kidney Toxicant, Neurotoxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

hexane- CAS No. 590-73-8. Data Lacking.

inorganic lead- CAS No. 7439-92-1. Recognized Carcinogen- Developmental Toxicant, Reproductive Toxicant. Suspected Carcinogen- Cardiovascular or Blood Toxicant, Endocrine Toxicant, Gastrointestinal or Liver Toxicant, Immunotoxicant, Kidney Toxicant, Neurotoxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

manganese compounds- CAS No. MAR 500. Suspected Carcinogen. Neurotoxicant, Reproductive Toxicant, Respiratory Toxicant.

mercury compounds- CAS No. EDF-033. Recognized Carcinogen- Developmental Toxicant. Suspected Carcinogen- Cardiovascular or Blood Toxicant, Neurotoxicant.

methanol- CAS No. 67-56-1. Suspected Carcinogen- Developmental Toxicant. Gastrointestinal or Liver Toxicant, Kidney Toxicant, Neurotoxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

methyl ethyl ketone- CAS No. 78-93-3. Suspected Carcinogen- Blood Toxicant, Developmental Toxicant, Gastrointestinal or Liver Toxicant, Kidney Toxicant, Neurotoxicant, Respiratory Toxicant, Reproductive Toxicant, Skin or Sense Organ Toxicant.

nickel- CAS No. 7440-02-0. Recognized Carcinogen. Suspected Carcinogen also- Cardiovascular or Blood Toxicant, Developmental Toxicant, Immunotoxicant, Kidney Toxicant, Neurotoxicant, Reproductive Toxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

phenol- CAS No. 108-95-2. Suspected Carcinogen- Cardiovascular or Blood Toxicant, Developmental Toxicant, Gastrointestinal Toxicant, Liver Toxicant, Kidney Toxicant, Neurotoxicant, Reproductive Toxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

phosphorus- CAS No. 7723-14-0. Suspected Carcinogen- Cardiovascular or Blood Toxicant, Developmental Toxicant, Gastrointestinal or Liver Toxicant, Kidney Toxicant, Musculoskeletal Toxicant, Neurotoxicant, Reproductive Toxicant, Skin or Sense Organ Toxicant.

chlorobenzene- CAS No. 108-90-7. Suspected Carcinogen- Cardiovascular or Blood Toxicant, Developmental Toxicant, Gastrointestinal or Liver Toxicant, Kidney Toxicant, Musculoskeletal Toxicant, Neurotoxicant, Reproductive Toxicant, Skin or Sense Organ Toxicant.

cobalt compounds- CAS No. CNB 850, IARC P65-MC. Suspected Carcinogen- Cardiovascular or Blood Toxicant, Gastrointestinal or Liver Toxicant, Immunotoxicant, Kidney Toxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

cresol isomers- CAS No. 1319-77-3. Suspected Carcinogen. Cardiovascular or Blood Toxicant, Neurotoxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

cyanide compounds- CAS No. 1073. Suspected Carcinogen. Cardiovascular or Blood Toxicant, Endocrine Toxicant, Neurotoxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

dioxins- CAS No. 1746-01-6. Recognized Carcinogen- Developmental Toxicant. Suspected Carcinogen- Cardiovascular or Blood Toxicant, Endocrine Toxicant, Gastrointestinal or Liver

Toxicant, Immunotoxicant, Kidney Toxicant, Neurotoxicant, Reproductive Toxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

dibenzofurans- CAS No. 1080. Recognized Carcinogen- Cardiovascular or Blood Toxicant, Developmental Toxicant, Endocrine Toxicant, Gastrointestinal or Liver Toxicant, Reproductive Toxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

dibutylphthalate- CAS No. 84-74-2. Suspected Carcinogen- Developmental Toxicant, Endocrine Toxicant, Gastrointestinal Toxicant, Liver Toxicant, Immunotoxicant, Kidney Toxicant, Neurotoxicant, Reproductive Toxicant, Skin or Sense Organ Toxicant.

ethyl benzene- CAS No. 100-41-4. Recognized Carcinogen. Also Suspected Carcinogen- Cardiovascular or Blood Toxicant, Developmental Toxicant, Endocrine Toxicant, Gastrointestinal or Liver Toxicant, Kidney Toxicant, Neurotoxicant, Reproductive Toxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

formaldehyde- CAS No. 50-00-0. Recognized Carcinogen, Also Suspected Carcinogen- Gastrointestinal or Liver Toxicant, Immunotoxicant, Neurotoxicant, Reproductive Toxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

propionaldehyde- CAS No. 123-38-6. Suspected Carcinogen- Neurotoxicant.

selenium compounds- CAS No. SBP 500, 7782-49-2. Suspected Carcinogen- Cardiovascular or Blood Toxicant, Gastrointestinal or Liver Toxicant, Kidney Toxicant, Musculoskeletal Toxicant, Neurotoxicant, Reproductive Toxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

toluene- CAS No. 108-88-3. Recognized Carcinogen- Developmental Toxicant, Cardiovascular or Blood Toxicant, Gastrointestinal or Liver Toxicant, Immunotoxicant, Kidney Toxicant, Neurotoxicant, Reproductive Toxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

o-xylenes- CAS No. 95-47-6. Suspected Carcinogen- Cardiovascular or Blood Toxicant, Development Toxicant, Gastrointestinal Toxicant, Liver Toxicant, Immunotoxicant, Kidney Toxicant, Neurotoxicant, Reproductive Toxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

m-xylenes- CAS No.108-38-3. Suspected Carcinogen-  
Cardiovascular or Blood Toxicant, Developmental Toxicant,  
Gastrointestinal or Liver Toxicant, Immunotoxicant, Kidney Toxicant,  
Neurotoxicant, Respiratory Toxicant, Skin or Sense Organ Toxicant.

p-xylenes- CAS No. 106-42-3. Suspected Carcinogen-  
Cardiovascular or Blood Toxicant, Developmental Toxicant,  
Gastrointestinal or Liver Toxicant, Immunotoxicant, Kidney Toxicant,  
Neurotoxicant, Reproductive Toxicant, Skin or Sense Organ Toxicant



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