Ethyl leaded gasoline and alternatives
Historical resources online

This list provides an overview of public online resources about the early history of leaded gasoline and the Ethyl Corporation along with alternatives such as fuel alcohol, aka, power alcohol, ethanol, etc. Critics of leaded gasoline (such as Alice Hamilton) maintained from the beginning that adding lead to gasoline was not necessary since ethyl alcohol, benzene and other fuels performed the same octane-boosting function when blended in gasoline. Therefore, I would argue, that to understand the history of leaded gasoline one must also seek out the history of the alternatives. - Bill Kovarik *bill.kovarik@gmail.com*

Recently published

Daniel Stone, *American Poison* - Dutton 2025 - Publishers Weekly review
https://www.publishersweekly.com/9780593473627

Carie Nielsen, Unleaded, Rutgers / Templeton 2021
https://rutgersuniversitypress.org/templeton-press/unleaded/9781978821002/

Environmental History Timeline panel, Dec. 9 2021
https://www.youtube.com/watch?v=uUJsauyMF18

Bill Kovarik, The Conversation, 2021
https://theconversation.com/a-century-of-tragedy-how-the-car-and-gas-industry-knew-about-the-health-risks-of-leaded-fuel-but-sold-it-for-100-years-anyway-173395

Online Libraries, Collections & Databases

https://babel.hathitrust.org/ Hathi Trust US historical documents

https://www.gracesguide.co.uk/ Graces Guide - UK database for engineering ($)

http://cnum.cnam.fr/ Conservatoire numérique des Arts et Métiers

https://gallica.bnf.fr/ National Library of France collections

https://www.everycrsreport.com/ Congressional Research Service

https://nepis.epa.gov/ EPA documents Also https://archive.epa.gov/

https://www.empireadc.org/search New York archival sources

https://katalog.slub-dresden.de/.

https://www.toxicdocs.org – Columbia University Toxic Docs collection

https://www.kettering.edu/about/our-history-archives Kettering University

https://invention.si.edu/e-i-du-pont-de-nemours-company-experimental-station-records-1908-1921 Lemuelson center

https://www.industrydocuments.ucsf.edu/ U. Calif. San Francisco industry documents collection

‘

Ethyl primary document repository
https://drive.google.com/drive/folders/1TQixZjx6OlYAFvxQK5TCY4yZfDrt9egv

Congressional Hearings

Hearings 1800s 1920

House Ways & Means Committee, Free Alcohol Hearings, Feb. 6, 1906. US GPO Washington DC
https://babel.hathitrust.org/cgi/pt?id=uiug.30112114021055&view=1up&seq=8&skin=2021

Use of Alcohol in engines, 1907, U. Ill, Perry John Freeman
https://babel.hathitrust.org/cgi/pt?id=uiuo.ark:/13960/t9x08bj2z&view=1up&seq=5&skin=2021

Denatured Alcohol at Home and Abroad - Report Comm Int Rev to House Ways Means, 1909 (Detail about Germ program)
https://babel.hathitrust.org/cgi/pt?id=hvd.32044091950352&view=1up&seq=5&skin=2021

House Ag hearings 1916 HR 11256
https://babel.hathitrust.org/cgi/pt?id=hvd.hx7e1d&view=1up&seq=5&skin=2021

Hearings 1920 to 1970s

Senate Hearings on high cost of gasoline 1922
https://babel.hathitrust.org/cgi/pt?id=hvd.32044082144494&view=1up&seq=1&skin=2021
https://babel.hathitrust.org/cgi/pt?id=osu.32435028334480&view=1up&seq=772&skin=2021

Prohibition hearings / Crampton law 1924
https://babel.hathitrust.org/cgi/pt?id=mdp.39015022467305&view=1up&seq=8&skin=2021

Prohib hearings 1924
https://babel.hathitrust.org/cgi/pt?id=umn.31951d02120580c&view=1up&seq=3&skin=2021
Prohibition hearings 1926
https://babel.hathitrust.org/cgi/pt?id=mdp.39015071649391&view=1up&seq=1&skin=2021
Prohibition hearings 1926 Vol 2
https://babel.hathitrust.org/cgi/pt?id=mdp.39015071649383&view=1up&seq=1&skin=2021

1939 Senate Finance Use of alcohol in Farm products May 23, 23, 25, 29
https://babel.hathitrust.org/cgi/pt?id=mdp.39015067125412&view=1up&seq=4&skin=2021

- **1942 Truman War Investigating Comm**ittee

Background
https://www.senate.gov/about/powers-procedures/investigations/truman.htm
https://www.senate.gov/about/resources/pdf/truman-committee-sres71-march1.pdf

Part 1
https://babel.hathitrust.org/cgi/pt?id=mdp.39015078412221&view=1up&seq=9&skin=2021
Part 5 Jan 15 1942 Additional Report
https://babel.hathitrust.org/cgi/pt?id=coo.31924069038861&view=1up&seq=4&skin=2021
Part 6 July - Aug 1941
https://babel.hathitrust.org/cgi/pt?id=mdp.39015078412213&view=1up&seq=9&skin=2021
Part 8 Oct 1941 Housing, Contracts, Aluminum
https://babel.hathitrust.org/cgi/pt?id=pst.000018447071&view=1up&seq=7&skin=2021
Part 10 Dec 41 - Feb 42 Labor Recreation Lobbying Dollar A Year
https://babel.hathitrust.org/cgi/pt?id=umn.31951d01114878h&view=1up&seq=5&skin=2021

Part 12 April - July 1942 Conversion Maritime Transport Housing
https://babel.hathitrust.org/cgi/pt?id=uc1.c084289556&view=1up&seq=5&skin=2021

- **Synthetic Rubber hearings March April 1942**

https://babel.hathitrust.org/cgi/pt?id=mdp.39015028771478&view=1up&seq=9&skin=2021
TEL antitrust **#507 (p. 4697)**
Part 42 Saudi Arabia 1948
https://babel.hathitrust.org/cgi/pt?id=mdp.39015032330758&view=1up&seq=7&skin=2021

- **1942 Gillette Synthetic rubber / Senate Agriculture Committee /**

Part 1 Utilization of farm crops: Alcohol and Synthetic rubber, 1942
https://babel.hathitrust.org/cgi/pt?id=uc1.b5100733&view=1up&seq=7&skin=2021
Part 2
https://babel.hathitrust.org/cgi/pt?id=uc1.a0000675835&view=1up&seq=1&skin=2021
Part 3
https://babel.hathitrust.org/cgi/pt?id=uc1.a0000675843&view=1up&seq=2&skin=2021

Part 4 1942-43
https://babel.hathitrust.org/cgi/pt?id=uc1.b5101571&view=1up&seq=7&skin=2021
Part 6 - 10
https://babel.hathitrust.org/cgi/pt?id=mdp.39015067097090&view=1up&seq=7&skin=2021
Part 8 - 1944
https://babel.hathitrust.org/cgi/pt?id=uc1.b5101572&view=1up&seq=9&skin=2021
Hearings in 1949
https://babel.hathitrust.org/cgi/pt?id=mdp.39015067097256&view=1up&seq=3&skin=2021

Investigation of expanded utilization of farm crops. 1944
https://babel.hathitrust.org/cgi/pt?id=coo.31924003623620&view=1up&seq=6&skin=2021

1945 TEL plant Frose, Germany Postwar report
https://babel.hathitrust.org/cgi/pt?id=pst.000050247189&view=1up&seq=1&skin=2021

1945 TEL strategic bombing survey
https://babel.hathitrust.org/cgi/pt?id=osu.32435025070434&view=1up&seq=9&skin=2021&q1=tetraethyl

1945 OIL strategic bombing survey
https://babel.hathitrust.org/cgi/pt?id=mdp.39015019070302&view=1up&seq=11&skin=2021&q1=tetraethyl

1946 Men, Oil and War - Petroleum industry committee
https://babel.hathitrust.org/cgi/pt?id=wu.89097047948&view=1up&seq=333&skin=2021&q1=tetraethyl

1966 Leaded gasoline US Senate

Hearings before a Subcommittee on Air and Water Pollution of the Committee on Public Works, United States Senate, Eighty-ninth Congress, second session, on S. 3112...S. 3400...and contamination of the environment from lead and other substances, June 7, 8, 9, 14, and 15, 1966. *Patterson, Kehoe, Hardy
https://babel.hathitrust.org/cgi/pt?id=umn.31951d035807529&view=1up&seq=9&skin=2021

Statement Richard Prindle (undated)
https://www.industrydocuments.ucsf.edu/tobacco/docs/#id=tfbc0002

Hearings 1970 to 2000s

1970 Senate Commerce Air Pollution Vol. 3 Mar 24 - 35
https://babel.hathitrust.org/cgi/pt?id=uiug.30112047315137&view=1up&seq=3&skin=2021
Notes - # 17 wheat to motor fuel article. #19 Agrigas as subs for lead
https://babel.hathitrust.org/cgi/pt?id=uiug.30112047315137&view=1up&seq=17&skin=2021
Notes - #279 lead poisoning article Hammond ‘

Esso - Shell 1970 industry reaction to “Muskie” amendment requirement to reduce air pollution
https://www.industrydocuments.ucsf.edu/chemical/docs/#id=kfbg0225

1970 House ways and means / taxing the lead in leaded gasoline
https://babel.hathitrust.org/cgi/pt?id=umn.31951d03715492c&view=1up&seq=1&skin=2021

1972 House Commerce - Inner City Environment
https://babel.hathitrust.org/cgi/pt?id=uc1.b4309978&view=1up&seq=7&skin=2021

1973 House Commerce - EPA regs to Limit lead in gasoline Nov 29
https://babel.hathitrust.org/cgi/pt?id=mdp.39015008829841&view=1up&seq=7&skin=2021

1973 House Energy & Commerce, Dec 3, 4, 5
Ethyl’s Lawrence Blanchard, doom-monger speech doc.pg. 98
https://babel.hathitrust.org/cgi/pt?id=mdp.39015078708123&view=1up&seq=1&skin=2021

1974 Senate public works committee May 7-8 1974 - Automotive lead emissions
* Vol 1 Needleman and more
https://babel.hathitrust.org/cgi/pt?id=uc1.b4500633&view=1up&seq=5&skin=2021
* Vol 2 Harriet Hardy, lots of industry
https://babel.hathitrust.org/cgi/pt?id=uc1.b4500634&view=1up&seq=1&skin=2021

Additional Public works testimony. Samuel S Epstein MD study
Note “Seven Cities Study” p 13, Ref 11 p 26
Also “lead traps” p 36 EPA critique p 38 / p 42 Octane lower, engine maintenance
P 43 aromatic PNAs, photochemical reactive, ltd by emission control devices
P 46 alts = MMT.
https://babel.hathitrust.org/cgi/pt?id=uiug.30112104124059&view=1up&seq=3

1974 Joint Economic Committee, May 20, 21, 22
Note- Leo Spano, Tom Reed testimony
https://babel.hathitrust.org/cgi/pt?id=mdp.39015081159173&view=1up&seq=4&skin=2021

1977 Senate public works committee Air Pollution / lead
https://babel.hathitrust.org/cgi/pt?id=uc1.b3603462&view=1up&seq=7&skin=2021

1977 Senate Clean Air Act amendments Feb 11 1977 part 3 (where are parts 1 & 2?)
https://babel.hathitrust.org/cgi/pt?id=umn.31951d008172604&view=1up&seq=3&skin=2021

1978 Senate Energy Committee price differential leaded and unleaded
https://babel.hathitrust.org/cgi/pt?id=mdp.39015036838020&view=1up&seq=1&skin=2021

1978 Q&A on Alcohol Fuels (Tom Reed) Senate Appropriations Jan 1978
https://babel.hathitrust.org/cgi/pt?id=coo.31924052164591&view=1up&seq=3&skin=2021

1978 House appropriations hearings on alcohol fuel - Major hearing
Testimony from Jimmy Carter, Denis Hayes, Scott Sklar
https://babel.hathitrust.org/cgi/pt?id=umn.31951d02888469n&view=1up&seq=1&skin=2021

1979 House Sci & Tech hearings Alcohol fuel options and Federal policies
May, June 1979
https://babel.hathitrust.org/cgi/pt?id=umn.31951d00275589k&view=1up&seq=1&skin=2021

1980 US National Alcohol Fuels Commission hearings June 18-19, Dirksen SOB
https://babel.hathitrust.org/cgi/pt?id=umn.319

1981 House Energy & Commerce Gasohol in Federal Vehicles
https://babel.hathitrust.org/cgi/pt?id=uc1.31210003549621&view=1up&seq=3&skin=2021

1982 House Govt Ops Lead in Gasoline Public Health Dangers
https://babel.hathitrust.org/cgi/pt?id=mdp.39015082592893&view=1up&seq=3&skin=2021

1982 House Energy & Commerce Methanol as alternative transportation fuel Aug 13, Sept 24
https://babel.hathitrust.org/cgi/pt?id=uc1.b4260911&view=1up&seq=969&skin=2021

1982 Congressional Research Service, Gasohol (shows how little history was known)
https://babel.hathitrust.org/cgi/pt?id=mou.010103860555&view=1up&seq=4&skin=2021

1984 House Science and Tech Ethanol Production
https://babel.hathitrust.org/cgi/pt?id=uc1.31210009389790&view=1up&seq=1&skin=2021

1984 House Ways and Means Ethanol tax incentives
https://babel.hathitrust.org/cgi/pt?id=uc1.31210024956391&view=1up&seq=1&skin=2021

1986 CRS to House Energy & Commerce - Alcohol fuels & lead phase down
Technically OK but uncertainty due to “intra-industry” conflicts
https://babel.hathitrust.org/cgi/pt?id=pst.000011968429&view=1up&seq=1&skin=2021

1989 House Energy & Commerce - RFG, CNG, ethanol
https://babel.hathitrust.org/cgi/pt?id=mdp.39015019777047&view=1up&seq=3&skin=2021

1995 House Commerce - RFG
https://babel.hathitrust.org/cgi/pt?id=uc1.31210011590245&view=1up&seq=1&skin=2021

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1872 - IRS - David A. Wells, LLD, The Recent Financial Industrial and Commercial Experiences of the United States: A curious chapter in Politico-Economic history, JH Goodsell Publishers, NY, 1872
https://babel.hathitrust.org/cgi/pt?id=mdp.39015035123259&view=2up&seq=41&skin=2021&size=125

H.W. Wiley, Industrial Alcohol: Uses and Statistics, USDA Oct 1, 1906
https://babel.hathitrust.org/cgi/pt?id=uiug.30112019294187&view=1up&seq=1&skin=2021
(Stoves and lamp illustrations VG)

C.E. Lucke, Columbia University, and S.M. Woodward, U.S.DA, "The Use of Alcohol and Gasoline in Farm Engines," U.S.D.A. Farmers Bulletin No. 277, (Washington: GPO, 1907).
https://babel.hathitrust.org/cgi/pt?id=uiug.30112019294278&view=1up&seq=1&skin=2021

Robert M. Strong, "Commercial Deductions from Comparisons of Gasoline and Alcohol Tests on Internal Combustion Engines," U.S. Geological Survey Bulletin 392, (Washington: GPO, 1909);
https://babel.hathitrust.org/cgi/pt?id=hvd.32044055615330&view=1up&seq=9&skin=2021

H.W. Wiley, USDA, Industrial Alcohol, Sources & Manufacture, 1911
https://babel.hathitrust.org/cgi/pt?id=uiug.30112019295945&view=1up&seq=1&skin=2021

Consular Reports, Foreign Trade in Denatured Alcohol, 1912, US Bureau of Manufacturing
https://babel.hathitrust.org/cgi/pt?id=hvd.li5ch4&view=1up&seq=7&skin=2021

Treasury regulations 1917
https://babel.hathitrust.org/cgi/pt?id=uiug.30112070428781&view=1up&seq=5&skin=2021

Commissioner of Revenue 1918
https://www.irs.gov/pub/irs-soi/1918dbfullar.pdf

US Bureau of Standards tests of Aviation Alcogas 1919
https://ia802707.us.archive.org/31/items/NASA_NTRS_Archive_19930091152/NASA_NTRS_Archive_19930091152.pdf

Also, same study
https://archive.org/details/NASA_NTRS_Archive_19930091152

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Prohibition - Volstead Act - LofC (seems blank / must be downloaded)
https://www.loc.gov/rr/main/images/volstead-act.pdf

Industrial alcohol documents 1930 - 1931 (National Archives)
https://catalog.archives.gov/id/1561316

Industrial alcohol denaturing regulations, Treasury, 1925
https://babel.hathitrust.org/cgi/pt?id=mdp.39015049236808&view=1up&seq=7&skin=2021

Bureau of Mines, 1924, Exhaust gasses from engines using ethyl gasoline / by R.R. Sayers
Animal tests / short duration / Note Alice Hamilton found these tests objectionable
https://babel.hathitrust.org/cgi/pt?id=mdp.39015086555128&view=1up&seq=1&skin=2021

Stanwood W Sparrow, Bureau of Standards, Fuels for High Compression Engines , Report 232, issued 1925
https://babel.hathitrust.org/cgi/pt?id=coo.31924089862407&view=1up&seq=5&skin=2021

1925 PHS hearing re TEL May 20 / transcript / key document
https://babel.hathitrust.org/cgi/pt?id=uc1.c022373265&view=1up&seq=1&skin=2021

1926 PHS second hearing re TEL Jan. 19, report by Surgeon General's committee
https://www.toxicdocs.org/search?q=lead+gasoline+1926&decade=1920&page=3#

1927 Fuel tests - "Experimental Studies on the effects of Ethyl gasoline … / Bureau Mines /
https://babel.hathitrust.org/cgi/pt?id=wu.89077454833&view=1up&seq=5&skin=2021

1927 Denaturing alcohol, Treasury
https://babel.hathitrust.org/cgi/pt?id=osu.32435004135802&view=1up&seq=5&skin=2021

1930 Admin of laws ind alcohol, Treasury I
https://babel.hathitrust.org/cgi/pt?id=hvd.32044032111825&view=1up&seq=7&skin=2021

1933 Bureau of Standards, ethyl alcohol fuel, phase separation, Oscar Bridgeman p 841
https://babel.hathitrust.org/cgi/pt?id=uc1.b4260911&view=1up&seq=15&skin=2021

1933 Rating Gasoline by Octane Numbers, US Naval Institute

https://www.usni.org/magazines/proceedings/1933/july/rating-gasoline-octane-numbers

1938 P. Burke Jacobs, Motor Fuels from Farm Products, USDA,
https://babel.hathitrust.org/cgi/pt?id=uva.x030354045&view=1up&seq=3&skin=2021
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1939 NACA German paper reprint - Testing high octane fuels
https://babel.hathitrust.org/cgi/pt?id=mdp.39015004568617&view=1up&seq=7&skin=2021

1939 Langley Memorial Aeronautical Laboratory, Compression ignition engine performance with undoped and doped fuel oils and alcohol mixtures, National Advisory Committee for Aeronautics,
https://babel.hathitrust.org/cgi/pt?id=osu.32435067596841&view=1up&seq=4&skin=2021

WWII aircraft performance database
http://www.wwiiaircraftperformance.org/

1946 Knock limiting performance of aircraft fuels
https://babel.hathitrust.org/cgi/pt?id=mdp.39015020152842&view=1up&seq=10&skin=2021

1948 NACA octane scale for aviation fuels
https://babel.hathitrust.org/cgi/pt?id=mdp.39015095016419&view=1up&seq=3&skin=2021

Fuel tests/ USDA 1949 The technical literature of agricultural motor fuels
https://babel.hathitrust.org/cgi/pt?id=uiug.30112101557301&view=1up&seq=6&skin=2021

US Tariff Commission Industrial Alcohol 1944
https://babel.hathitrust.org/cgi/pt?id=uc1.ee0000275594&view=1up&seq=41&skin=2021

1940 (pub 46) Requirements dual fuel systems aircraft NACA
https://babel.hathitrust.org/cgi/pt?id=mdp.39015020152826&view=1up&seq=1&skin=2021

1946 BuMines World gasoline / includes some NZ, Sweden alcohol fuel
https://babel.hathitrust.org/cgi/pt?id=uc1.c037901457&view=1up&seq=18&skin=2021&q1=alcohol

USDA Tech Lit Ag fuels, 1949
https://babel.hathitrust.org/cgi/pt?id=uiug.30112101557301&view=1up&seq=3&skin=2021

P. Burke Jacobs, USDA, 1950
A study of the technology, production and uses of alcohol in relation to the farmer
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President's Appointed Bipartisan Commission on Increased Industrial Use of Agricultural Products. Task Group on Industrial Alcohol from Grain, , 1957
https://babel.hathitrust.org/cgi/pt?id=uiug.30112020264153&view=1up&seq=2&skin=2021

1946 Postwar review aviation fuels
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1954 - SRI Smog Problem in Los Angeles - Major report
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1959 Public health aspects of increasing TEL / PHS report /
https://babel.hathitrust.org/cgi/pt?id=uc1.31822024253551&view=1up&seq=3&skin=2021

1961 US Navy Storage tank cleanout
https://babel.hathitrust.org/cgi/pt?id=uc1.b2891670&view=1up&seq=12&skin=2021
‘

1962 US Surgeon General report on air pollution, Lead starts p 82. Reliance on Kehoe research later discredited. https://www.industrydocuments.ucsf.edu/tobacco/docs/#id=sfkl0094

1963 BuMines Effects of lead exhaust on catalysts
https://babel.hathitrust.org/cgi/pt?id=mdp.39015078481598&view=1up&seq=3&skin=2021

1965 FTC conference on gasoline marketing
https://www.google.com/books/edition/Hearings/htCB41KNtHAC?hl=en&gbpv=1

1965 PHS Symposium on environmental lead Contamination, Dec 13 - 15
* Kehoe, Harriet Hardy, Harry Hermann
https://babel.hathitrust.org/cgi/pt?id=mdp.39015020989391&view=1up&seq=3&skin=2021

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1971 Automotive Fuels and Air Pollution , Blue ribbon commission, 1971 - Axes leaded gasoline re catalytic, reccs unleaded
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1971 USDA Lead mercury cadmium as env contaminants - NP with lead below Kehoe - PHS threshold https://www.industrydocuments.ucsf.edu/tobacco/docs/#id=kscb0047

1972 Env Sci Tech Stephen K Hall

https://pubs.acs.org/doi/pdf/10.1021/es60060a008
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1974 NTIS lead and air pollution bibliography
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1977 NSF Lead in the environment major study
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1979 Lead phase down EPA report
https://babel.hathitrust.org/cgi/pt?id=ien.35556031051659&view=1up&seq=3&skin=2021

1979 DOJ to President, gas shortage, anti-trust
https://babel.hathitrust.org/cgi/pt?id=mdp.39015012924885&view=1up&seq=11&skin=2021

1980 Alcohol Fuel Plants, US Treasury, BATF , 1980
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https://babel.hathitrust.org/cgi/pt?id=uiug.30112018861143&view=1up&seq=1&skin=2021

1982 Lead in gasoline public health House Govt Ops
https://babel.hathitrust.org/cgi/pt?id=pur1.32754075430946&view=1up&seq=1&skin=2021

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1981 Federal Agencies, US National Alc Fuels Comm,
https://babel.hathitrust.org/cgi/pt?id=umn.31951002864332w&view=1up&seq=1&skin=2021

1981 Final Report, U.S. National Alcohol Fuels Commission
https://babel.hathitrust.org/cgi/pt?id=umn.31951d00297245u&view=1up&seq=1&skin=2021

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> *I saw a horrible brown heap on the floor in a corner, which, but for previous experience in this dismal wise, I might not have suspected to be 'the bed.' There was something thrown upon it; and I asked what that was.*
> *''Tis the poor craythur that stays here, sur; and 'tis very bad she is, and 'tis very bad she's been this long time, and 'tis better she'll never be, and 'tis slape she does all day, and 'tis wake she does all night, and 'tis the lead, sur.'*
> *'The what?'*
> *'The lead, sur. Sure 'tis the lead-mills, where the women gets took on at eighteen-pence a day, sur, when they makes application early enough, and is lucky and wanted; and 'tis lead-pisoned she is, sur, and some of them gets lead-pisoned soon, and some of them gets lead-pisoned later, and some, but not many, niver; and 'tis all according to the constitooshun, sur, and some constitooshuns is strong, and some is weak; and her constitooshun is lead-pisoned, bad as can be, sur; and her brain is coming out at her ear, and it hurts her dreadful; and that's what it is, and niver no more, and niver no less, sur.'*

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"The clincher by all prophets of doom is that someone started the rumor that lead was the cause of the fall of the Roman Empire," said Ethyl vice president Lawrence E. Blanchard, Jr. "The legend always gets fuzzy — sometimes it is caused by lead-lined aqueducts, other times it is from their wine being drunk from lead-lined flasks."'
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Known to exist and be missing

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Test diaries and day-to-day records of experiments conducted during 1920 - 22 period when tetraethyl lead was discovered by G.M. researchers in Dayton, Ohio. (These are standard sources in history of technology, but are missing in the Ethyl case).

Correspondence and submissions of members of the Surgeon General's Committee concerning alternatives to tetraethyl lead anti-knock agents. Fragments found in the Yale archives. Committee members specifically requested such files to be established at the Public Health Service; however, none are found in the U.S. National Archives RG 90.

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